

1977

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J. HEEREN



BULLETIN

1977-78



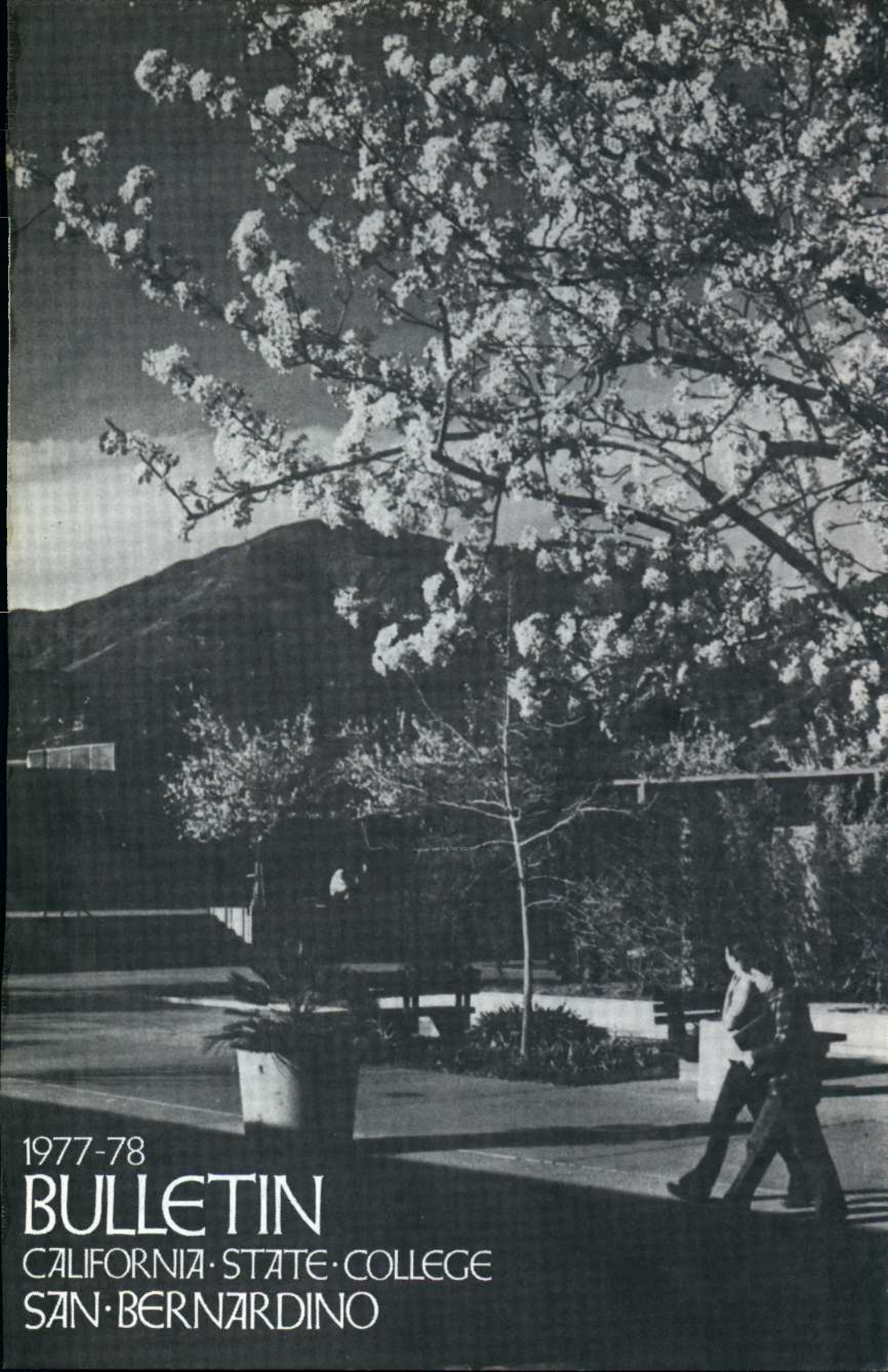
CALIFORNIA·
STATE·COLLEGE
SAN·BERNARDINO

This Bulletin represents the College's course descriptions and requirements at the undergraduate and graduate levels. California State College, San Bernardino reserves the right to revise Bulletin provisions in accordance with official actions of the Board of Trustees of the California State University and Colleges and other governing bodies. Students are advised to consult the appropriate department, school or office for current information. Supplementary bulletins contain additional information about graduate and summer programs.

Inquiries about admission to the college should be directed to Associate Dean of Admissions, (714) 887-7301; requests for general academic information and about graduate programs may go to the Dean of Academic Planning, (714) 887-7521, California State College, San Bernardino, 5500 State College Parkway, San Bernardino, CA 92407.

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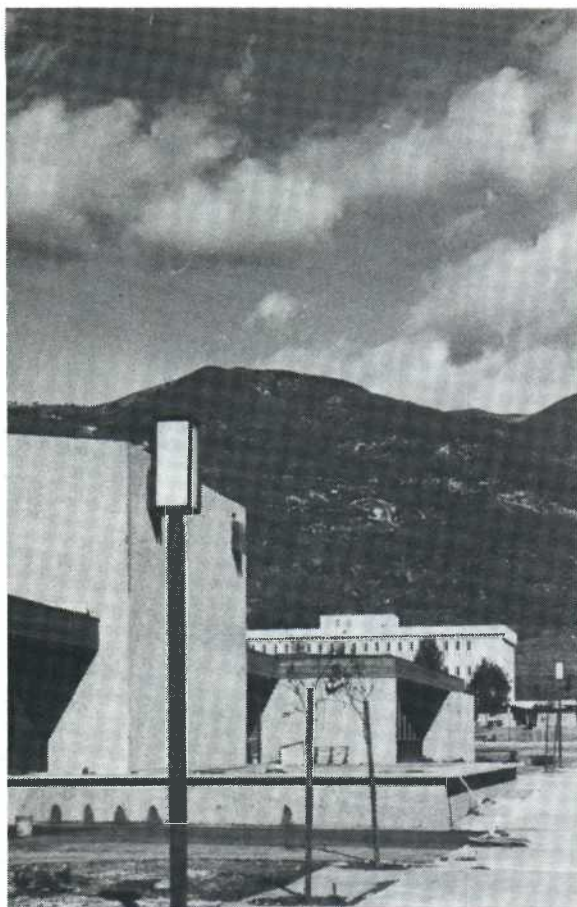
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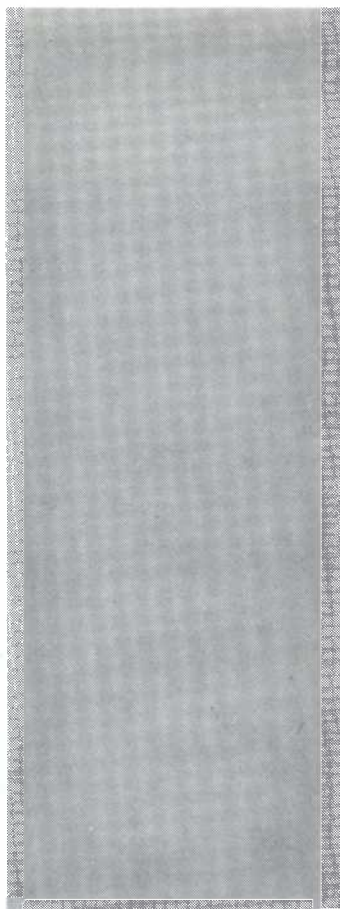
1977-78

BULLETIN

CALIFORNIA · STATE · COLLEGE
SAN · BERNARDINO



Creative Arts Building



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CALENDAR
1977-78

FALL TERM

Sept. 19	Beginning of the academic year
Sept. 19-23	Orientation of new students
Sept. 22-23	Advising
Sept. 26-27	Registration
Sept. 29	Classes begin; late registration
Oct. 5	Last day to add classes
Oct. 19	Last day to drop classes
Oct. 20	Last day to file graduation check for March graduation; see page 64
Nov. 24-25	Thanksgiving holiday
Nov. 28-	
Dec. 2	Advising
Dec. 9	Last day of classes
Dec. 12-15	Final examinations
Dec. 23-26	Christmas holiday

WINTER TERM

Jan. 2	New Year's Day holiday
Jan. 3-4	Registration
Jan. 6	Classes begin; late registration
Jan. 12	Last day to add classes
Jan. 26	Last day to drop classes
Jan. 27	Last day to file graduation check for June, July and August graduation; see page 64
Feb. 20	Washington's Birthday holiday
March 6-10	Advising
March 16	Last day of classes
March 17 and 20-22	Final examinations

1977

S M T W T F S

SEPTEMBER

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OCTOBER

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NOVEMBER

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DECEMBER

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1978

JANUARY

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MARCH

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SPRING TERM

March 29-30	Registration
April 3	Classes begin; late registration
April 7	Last day to add classes
April 21	Last day to drop classes
April 24	Last day to file graduation check for December graduation; see page 64
May 29	Memorial Day holiday
June 12	Last day of classes
June 13-16	Final examinations
June 17	Commencement

SUMMER SESSIONS

June 19	Registration
June 21	Classes begin for regular session
July 4	Independence Day holiday
July 26	Classes end for regular session
July 27	Registration for post session
July 31	Classes begin for post session
Aug. 18	Classes end for post session

FALL TERM 1978

Sept. 11	Beginning of the academic year
Sept. 11-15	Orientation of new students
Sept. 14-15	Advising
Sept. 18-19	Registration
Sept. 21	Classes begin; late registration
Sept. 27	Last day to add classes
Oct. 11	Last day to drop classes
Oct. 12	Last day to file graduation check for March graduation; see page 64
Nov. 13-17	Advising
Nov. 23-24	Thanksgiving holiday
Dec. 1	Last day of classes
Dec. 4-7	Final examinations
Dec. 25	Christmas holiday

A more detailed calendar of academic dates and deadlines is published each quarter in the class schedule.

1978

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AUGUST

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SEPTEMBER

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OCTOBER

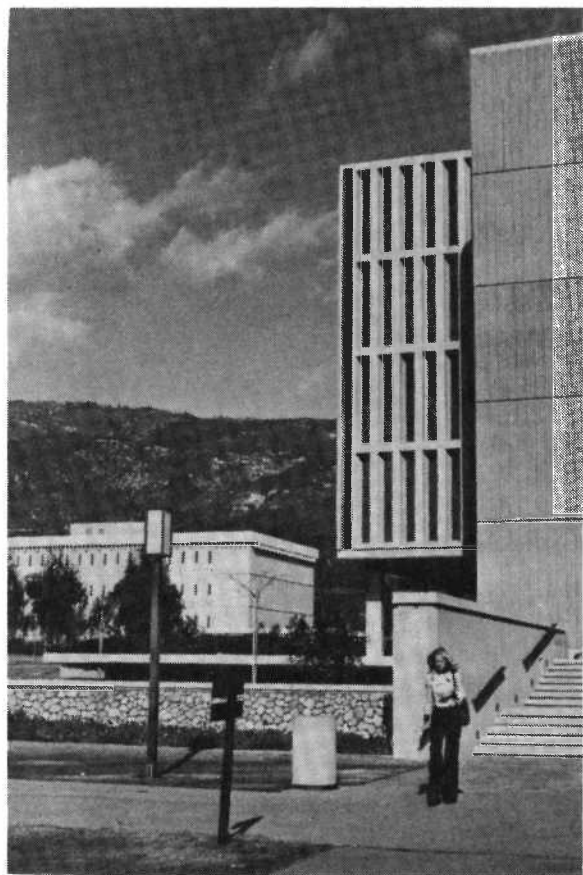
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NOVEMBER

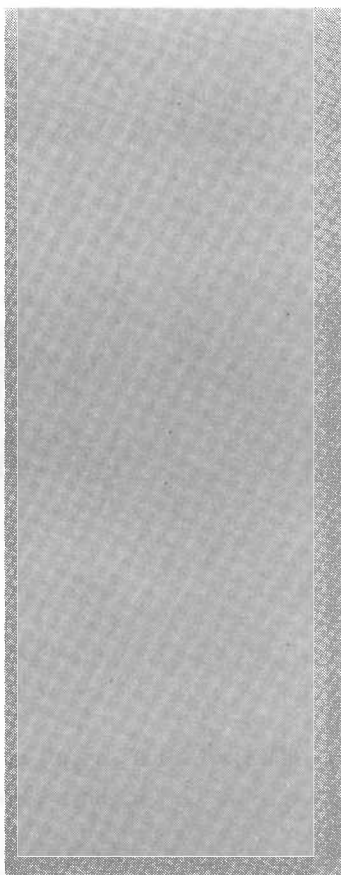
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DECEMBER

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31



Physical Sciences Building, at left; Library, right foreground



THE CALIFORNIA STATE UNIVERSITY AND COLLEGES

The individual California State Colleges were brought together as a system by the Donahoe Higher Education Act in 1960. In 1972 the system became The California State University and Colleges and 14 of the campuses received the title University.

The oldest campus, San Jose State University, was founded in 1857 and became the first institution of public higher education in California. The newest campus, California State College, Bakersfield, began instruction in 1970.

Responsibility for the California State University and Colleges is vested in the Board of Trustees, whose members are appointed by the governor. The trustees appoint the chancellor, who is the chief executive officer of the system, and the presidents, who are the chief executive officers on the respective campuses.

The trustees, the chancellor and the presidents develop systemwide policy, with actual implementation at the campus level taking place through broadly based consultative procedures. The Academic Senate of The California State University and Colleges, made up of elected representatives of the faculty from each campus, recommends academic policy to the Board of Trustees through the chancellor.

Academic excellence has been achieved by The California State University and Colleges through a distinguished faculty, whose primary responsibility is superior teaching. While each campus in the system has its own unique geographic and curricular character, all campuses, as multipurpose institutions, offer undergraduate and graduate instruction for professional and occupational goals as well as broad liberal education. All of the campuses require for graduation a basic program of "general education-breadth requirements" regardless of the type of bachelor's degree or major field selected by the student. A few doctoral degrees are offered jointly with the University of California.

Presently, under the system's "new approaches to higher education," the campuses are implementing a wide variety of innovative programs to meet the changing needs of students and society. Among pilot programs under way are instructional television projects, self-paced learning plans, minicourses and credit-by-examination alternatives. The Consortium of The California State University and Colleges fosters and sponsors local, regional and statewide external degree and certificate programs to meet the needs of individuals who find it difficult or impossible to attend classes on a campus.

Enrollments in fall 1976 totaled nearly 300,000 students, taught by a faculty of 17,000. Last year the system awarded more than 53 percent of the bachelor's degrees and 34 percent of the master's degrees granted in California. More than 600,000 persons have been graduated from the campuses since 1960.

The California State University and Colleges

California State College, Bakersfield

9001 Stockdale Highway
Bakersfield, California 93309
Dr. Jacob P. Frankel, President
(805) 833-2011

California State University, Chico

1st and Normal Streets
Chico, California 95929
Dr. Stanford Cazier, President
(916) 895-5011

California State College, Dominguez Hills

1000 East Victoria Street
Dominguez Hills, California 90747
Dr. Donald R. Gerth, President
(213) 532-4300

California State University, Fresno

Shaw and Cedar Avenues
Fresno, California 93740
Dr. Norman A. Baxter, President
(209) 487-9011

California State University, Fullerton

Fullerton, California 92634
Dr. L. Donald Shields, President
(714) 870-2011

California State University, Hayward

Hayward, California 94542
Dr. Ellis E. McCune, President
(415) 881-3000

Humboldt State University

Arcata, California 95521
Dr. Alistair W. McCrone, President
(707) 826-3011

California State University, Long Beach

1250 Bellflower Boulevard
Long Beach, California 90840
Dr. Stephen Horn, President
(213) 498-4111

California State University, Los Angeles

5151 State University Drive
Los Angeles, California 90032
Dr. John A. Greenlee, President
(213) 224-0111

California State University, Northridge

18111 Nordhoff Street
Northridge, California 91330
Dr. James W. Cleary, President
(213) 885-1200

California State Polytechnic University, Pomona

3801 West Temple Avenue
Pomona, California 91768
Dr. Robert C. Kramer, President
(714) 598-4592

California State University, Sacramento

6000 J Street
Sacramento, California 95819
Dr. James Bond, President
(916) 454-6011

California State College, San Bernardino

5500 State College Parkway
San Bernardino, California 92407
Dr. John M. Pfau, President
(714) 887-7201

San Diego State University

5300 Campanile Drive
San Diego, California 92182
Dr. Brage Golding, President
(714) 286-5000

Imperial Valley Campus

720 Hebner Avenue
Calexico, California 92231
(714) 357-3721

San Francisco State University

1600 Holloway Avenue
San Francisco, California 94132
Dr. Paul F. Romberg, President
(415) 469-2141

San Jose State University

125 South Seventh Street
San Jose, California 95192
Dr. John H. Bunzel, President
(408) 277-2000

California Polytechnic State University, San Luis Obispo

San Luis Obispo, California 93407
Dr. Robert E. Kennedy, President
(805) 546-0111

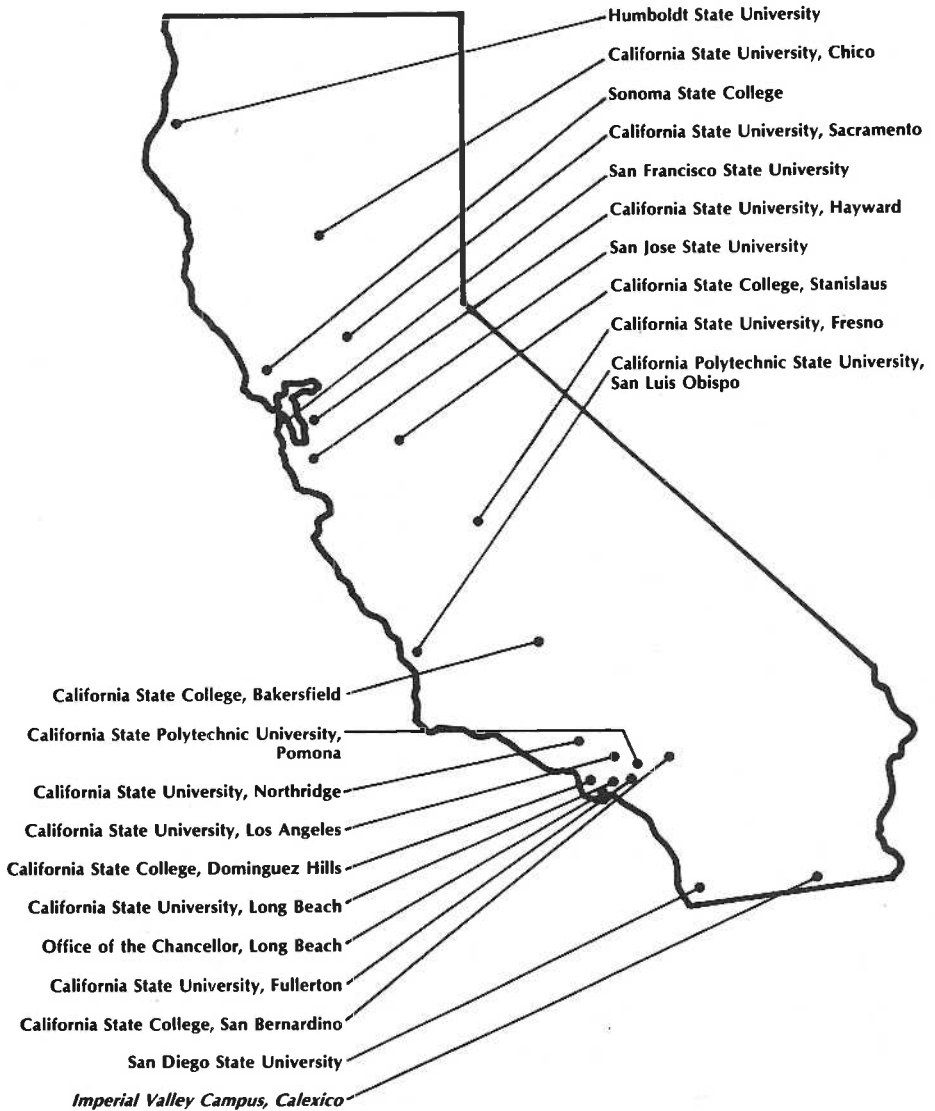
Sonoma State College

1801 East Cotati Avenue
Rohnert Park, California 94928
Dr. Peter Diamandopoulos, President
(707) 664-2880

California State College, Stanislaus

800 Monte Vista Avenue
Turlock, California 95380
Dr. A. Walter Olson, President
(209) 633-2122

THE CALIFORNIA STATE UNIVERSITY AND COLLEGES



TRUSTEES OF THE CALIFORNIA STATE UNIVERSITY AND COLLEGES

EX OFFICIO TRUSTEES

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Governor of California
State Capitol, Sacramento 95814

Mervyn Dymally

Lieutenant Governor of California
State Capitol, Sacramento 95814

Leo McCarthy

Speaker of the Assembly
State Capitol, Sacramento 95814

Wilson C. Riles

Superintendent of Public Instruction
721 Capitol Mall, Sacramento 95814

Dr. Glenn S. Dumke

*Chancellor of the California State
University and Colleges*
400 Golden Shore, Long Beach 90802

APPOINTED TRUSTEES

Appointments, which expire March 1, are for a term of eight years, except for a student trustee and an alumni trustee who serve for two years. Names are listed in order of appointment to board.

Charles Luckman, 1982

9220 Sunset Boulevard, Los Angeles 90069

W. O. Weissich, 1977

*55 Professional Center Parkway, San Rafael
94901*

Robert A. Hornby, 1978

810 South Flower St., Los Angeles 90017

Wendell W. Witter, 1979

45 Montgomery Street, San Francisco 94106

Mrs. Winifred H. Lancaster, 1977

P. O. Drawer JJ, Santa Barbara 93102

Gene M. Benedetti, 1978

8990 Poplar Avenue, Cotati 94928

Robert F. Beaver, 1976

254 East 27th St., Los Angeles 90011

Roy T. Brophy, 1980

*2160 Royale Road, Suite 20,
Sacramento 95815*

Mrs. C. Stewart Ritchie, 1980

1064 Creek Drive, Menlo Park 94025

Frank P. Adams, 1981

*235 Montgomery Street, Suite 1922
San Francisco 94104*

Richard A. Garcia, 1979

P.O. Box 2073, Glendale 91209

Dean S. Leshner, 1981

P.O. Box 5166, Walnut Creek 94596

Dr. Claudia H. Hampton, 1982

*450 N. Grand, Room G-353
Los Angeles 90012*

Dr. Mary Jane Pew, 1983

2021 N. Western Ave., Los Angeles 90027

Willie J. Stennis, 1983

3947 Landmark, Culver City 90230

Ms. Kathleen A. Carlson, 1978

*185-A Parnassus Avenue
San Francisco 94117*

Dr. Juan Gomez-Quinones, 1984
*Chicano Studies Center, University of
California, Los Angeles
405 Hilgard Avenue, Los Angeles 90024*

John F. O'Connell, 1979
*Bechtel Corp., P.O. Box 3965
San Francisco 94119*

OFFICERS OF THE TRUSTEES

President: Governor Brown

Chairman: Mr. Weissich

Vice Chairman: Mr. Brophy

Secretary-Treasurer: Dr. Dumke

OFFICE OF THE CHANCELLOR
THE CALIFORNIA STATE UNIVERSITY AND COLLEGES
400 Golden Shore, Long Beach 90802

Chancellor: Dr. Glenn S. Dumke

Executive Vice Chancellor:
Harry Harmon

Vice Chancellor, Academic Affairs:
Dr. Alex C. Sherriffs

*Vice Chancellor,
Business Affairs:*
D. Dale Hanner

*Vice Chancellor,
Faculty and Staff Affairs:*
Dr. Marjorie Downing Wagner

*Vice Chancellor, Administrative
Affairs:*
Dr. Lee R. Kerschner

General Counsel:
Mayer Chapman

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Chairman

San Bernardino

Harold C. Harris, Jr.

Vice Chairman

San Bernardino

Robert J. Bierschbach

Redlands

Mrs. Luella M. Cchen (Theodore M.)

San Bernardino

Arthur J. Forbes

Riverside

James K. Guthrie

San Bernardino

Mrs. Barbara R. Leonard (William E.)

San Bernardino

Martin Matich

San Bernardino

Robert J. Mitton

San Bernardino

Verne F. Potter

San Bernardino

Eliseo G. Ruiz

San Bernardino

Dr. Wayne Scott

San Bernardino

CALIFORNIA STATE COLLEGE, SAN BERNARDINO

ADMINISTRATIVE OFFICERS

President: John M. Pfau, Ph.D.

Vice President for Academic Affairs: Gerald M. Scherba, Ph.D.

Associate Dean of Academic Affairs: Robert A. Lee, Ph.D.

Dean of Academic Administration: James D. Thomas, Ph.D.

Associate Dean of Academic Administration: Richard T. Ackley, Ph.D.

Assistant Dean of Academic Administration: Florence Weiser, M.A.

Dean of Academic Planning: Ralph H. Petrucci, Ph.D.

Associate Dean of Academic Planning: Catherine C. Gannon, Ph.D.

Associate Dean of Academic Planning for

Graduate Studies: Lee H. Kalbus, Ph.D.

Dean of Continuing Education: Stephen A. Bowles, Ph.D.

Dean, School of Administration: H. Arthur Hoverland, Ph.D.

Dean, School of Education: Nathan Kravetz, Ed.D.

Dean, School of Humanities: P. Richard Switzer, Ph.D.

Dean, School of Natural Sciences: James D. Crum, Ph.D.

Dean, School of Social and Behavioral Sciences: Ward M. McAfee, Ph.D.

Chairman, Department of Physical Education

and Recreation: George A. Weiny, M.A.

Director of Library: Arthur Nelson, M.A.L.S.

Head, Library Operations: Marty Bloomberg, M.A.

Head, External Operations: John Tibbals, M.S.L.S.

Director of Audiovisual Services: Robert A. Senour, Ph.D.

Director of Institutional Research: Robert A. Schwabe, Ph.D.

Manager, Computer Center: Frank Slaton, M.S.

Vice President for Administration: Joseph K. Thomas, Ed.D.

Building Coordinator: James H. Urata, M.A.

Director of Public Affairs: Edna Steinman, B.J.

Chief, Plant Operations: Andre Maurel

Editorial Aide, College Relations: Barbara Nolte, A.A.

Dean of Students: Kenton L. Monroe, Ph.D.

Associate Dean, Activities and Housing: Russell J. DeRemer, Ph.D.

Activities Advisor: Richard J. Bennecke, M.A.

Housing Coordinator: Craig Henderson, Ph.D.

Head Resident: Laraine Turk, M.Ed.

14 / Administration

Associate Dean of Admissions and Records: H. Stephen Prouty, M.S.

Admissions Officer: Cheryl Weese, B.A.

Registrar: Jo Ann Von Wald, B.A.

Relations with Schools Officer: Michael M. Rose, M.A.

Assistant Relations with Schools Officer: Jody Royal, B.A.

Associate Dean, Counseling and Testing: John M. Hatton, Ph.D.

Counselor and Test Officer: Donald C. Woods, Ph.D.

Counselor: Martha P. Kazlo, Ph.D.

Psychometrist: Dianne Irwin, M.A.

Associate Dean, Special Services: Tom M. Rivera, Ed.D.

Director of Child Care Center: Judy Calkins, M.A.

Director, Educational Opportunity Program Supportive Services:

Walter Hawkins, M.S.W.

Evaluator, Educational Opportunity Program: L. Theron Pace, Ph.D.

Director of Upward Bound: Michael Preston, M.Ed.

Veterans Services Coordinator: Timothy B. Tucker, M.A.

Associate Dean, Placement and Financial Aid: Doyle J. Stansel, M.A.

Director, Financial Aid: Theodore Krug, M.A.

Financial Aid Advisor: Judith Torres, B.A.

Financial Aid Advisor: Rita Cohn, B.A.

Placement Officer: Paul Esposito, Ed.D.

Placement Advisor: Jan Hinkley, B.A.

Placement Counselor: L. Theron Pace, Ph.D.

Director, Student Health Service: Ross Ballard, M.D.

Supervising Nurse: N. Vivian McEachern, R.N., N.P.

Nurse: Lois Ljunggren, R.N.

Chief, College Police: Michael A. Gomez, A.A.

Sergeant: Arthur M. Butler, A.A.

Sergeant: Paul M. Herzig, M.A.

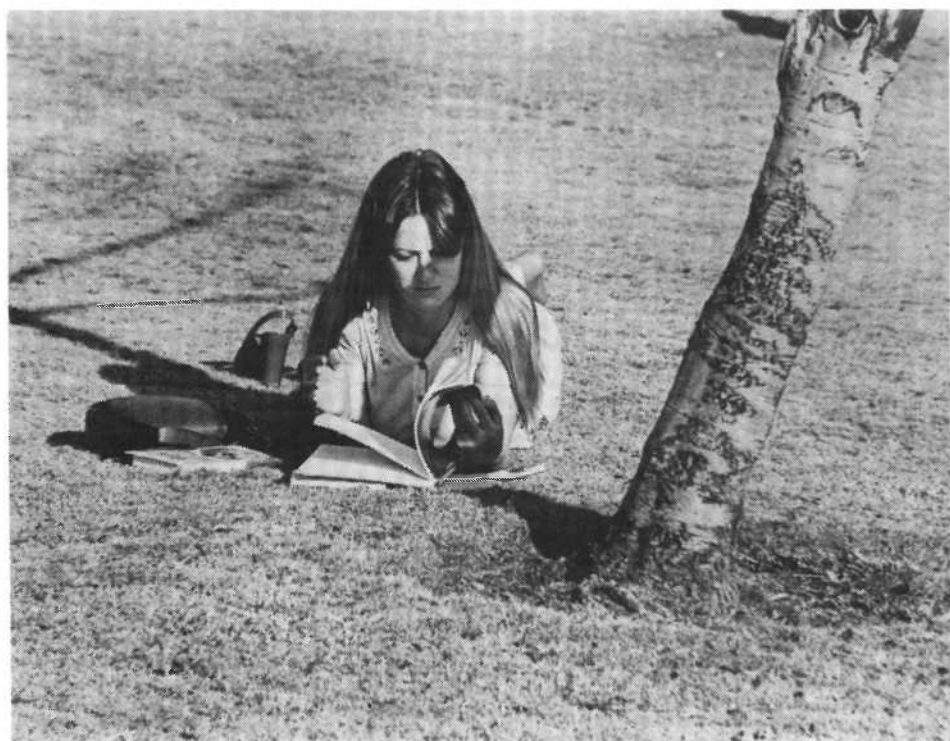
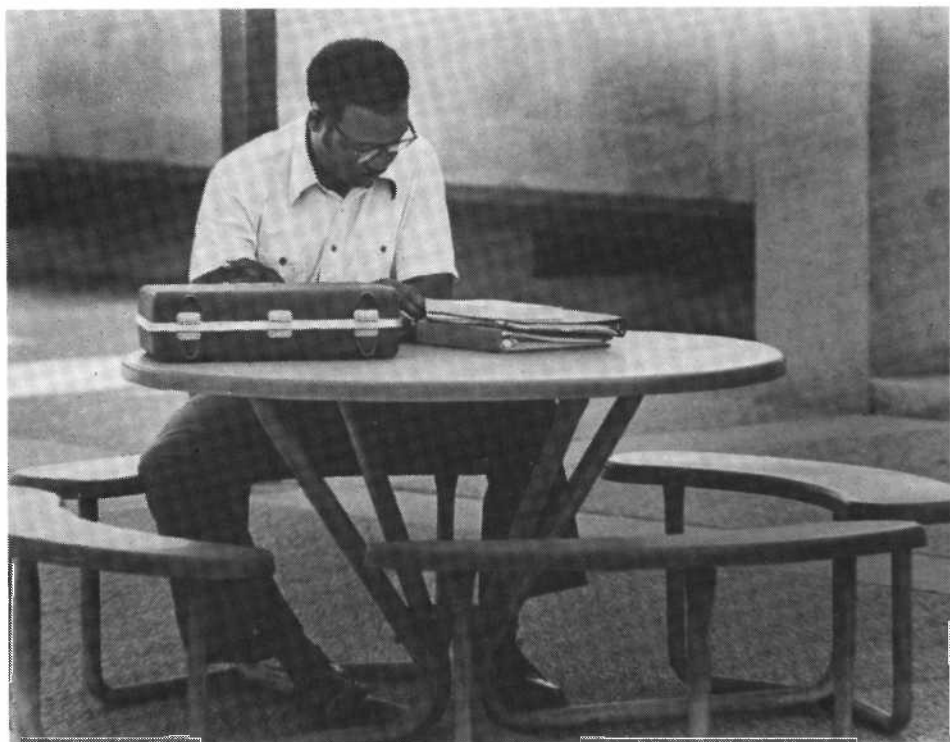
Business Manager: Leonard B. Farwell, M.B.A.

Accounting Officer: Donald E. Saponetti, B.A.

Budget Officer: Jim G. Martinez, B.A.

Business Services Officer: R. Joy Robertson, A.A.

Personnel Officer: Oscar Jackson, B.A.





Serrano Village, on-campus housing complex



SAN BERNARDINO: LOCATION AND HISTORY

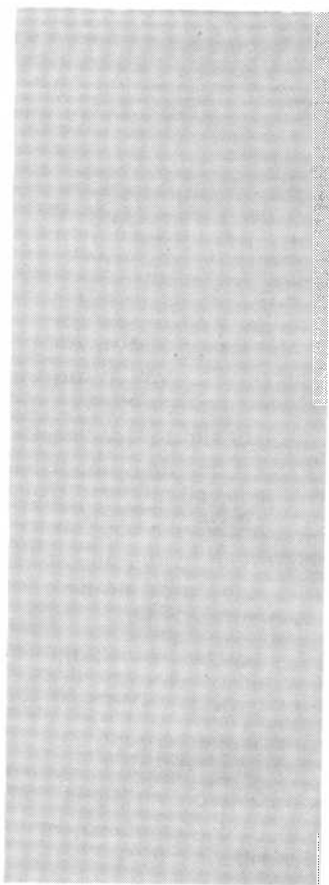
The city of San Bernardino is situated at the foot of the San Bernardino Mountains, which form the northeastern boundary of the San Gabriel Valley. The valley's western terminus, 60 miles away, is the Los Angeles basin and the beaches of the Pacific Ocean.

In earlier times the San Bernardino area was the home of Serrano, Luiseno and Cahuilla Indians. The first pioneers from Mexico settled in the San Gabriel Valley in the 1770's. Mission San Gabriel was founded by Fr. Junipero Serra in 1771, ten years before pueblo Los Angeles was established. The mission built a fortified asistencia near modern San Bernardino in 1819, but this was abandoned in 1834 when newly independent Mexico secularized the missions.

In 1842 the Lugo family purchased the 37,000-acre San Bernardino Valley. A group of Mormon colonists came to the valley in 1851, purchased the Lugo Rancho and built a stockade near the present county courthouse. A village developed around the stockade and this, coupled with California statehood, led to the establishment of San Bernardino County in 1853 and the incorporation of the city of San Bernardino in 1854. Connection to the transcontinental railroad in 1885 recognized the valley's importance and insured its future growth and prosperity.

Inland Southern California

Historic San Bernardino Valley is part of inland southern California, an area encompassing all of San Bernardino and Riverside counties. The College is within the Riverside-San Bernardino-Ontario metropolitan area and serves as well more distant locations in the two counties—the Colorado River communities of Blythe and Needles; the high desert area including Victorville and Barstow; the low desert, Coachella Valley region including Palm Springs and Indio; the mountain communities of Big Bear, Lake Arrowhead and Idyllwild; the Hemet Valley, including Hemet, San Jacinto and Perris.



THE COLLEGE ACADEMIC PROGRAM

Now into its second decade, California State College, San Bernardino continues its development in new directions.

The College opened in 1965, offering six degree programs to just under 300 students. During its initial phase of development, the College focused upon a strong liberal arts curriculum, which by 1976 had been expanded to 34 baccalaureate degree programs, several teaching credential fields and various options within seven master's degree programs. Enrollment had topped 4,000 and was continuing its steady climb.

While continuing to emphasize the liberal arts, the College is now implementing a number of career-oriented programs, both at the undergraduate and the graduate levels.

Academic Plan

The College has adopted an academic calendar consisting of three 11-week terms which differs from the conventional quarter system in that full-time students normally enroll in only three courses per term. Under the three/three plan, each course normally meets four hours per week (laboratory and studio courses are exceptions). The student thus is in class 12 hours per week or the equivalent, instead of the traditional 15. Such reduction of classroom time is balanced by increased assignment of written work and greater emphasis on independent study and independent laboratory work. This academic program is designed to afford the student the opportunity to carry on studies in depth and in breadth, to develop abilities to work independently and to achieve intellectual growth.

Class Size

A distinctive feature of the San Bernardino plan is that the maximum enrollment in most classes (nearly 90 percent) is limited to 20. This small class size increases the possibilities for discussion and for student-faculty contacts both within and outside the classroom.

To maintain the 20-student class as the norm requires that a small proportion of courses be offered in a large-lecture format (maximum enrollment of 250) or in an intermediate size (enrollment of 50 to 100).

Among lower-division general education courses, those in the basic studies area, in foreign language and in philosophy are offered mostly through small classes, while those in other areas employ intermediate or large-lecture classes. Upper-division general education courses are also offered in the large-lecture format. Each department utilizes intermediate size classes for a small number of required or elective courses, but the vast majority of departmental offerings are

20 / Academic Program

in small classes. The typical laboratory section has a maximum enrollment of 24, sometimes less.

Accreditation

The California State College, San Bernardino is accredited by the Western Association of Schools and Colleges, the official accrediting body for institutions of higher learning in the West. The teaching credential programs of the College are approved by the California State Board of Education. The Chemistry Department is accredited by the American Chemical Society.

Baccalaureate Degree Programs

In the 1977-78 academic year, the College will offer bachelor's degrees in the following fields:

School of Administration

Administration	B.A./B.S.
----------------	-----------

School of Humanities

Art	B.A.
Drama	B.A.
English	B.A.
French	B.A.
Humanities	B.A.
Music	B.A.
Philosophy	B.A.
Spanish	B.A.

School of Natural Sciences

Biology	B.A./B.S.
Chemistry	B.A./B.S.
Health Science	B.S.
Mathematics	B.A./B.S.
Nursing	B.S.
Physics	B.A./B.S.

School of Social and Behavioral Sciences

Anthropology	B.A.
Criminal Justice	B.A.
Economics	B.A.
Geography	B.A.
History	B.A.
Political Science	B.A.
Psychology	B.A.
Social Sciences	B.A.
Sociology	B.A.

Interdisciplinary Programs	
Child Development	B.A.
Environmental Studies	B.A.
Human Services	B.A.
Liberal Studies	B.A.
Special Major	B.A.
Vocational Education	B.V.E.

Graduate Programs

In the 1977-78 academic year, the College will offer master's degree programs in the following fields:

Business Administration, M.B.A.

Public Administration, M.P.A.

Biology, M.S.

Education, M.A.

(with options in elementary education, secondary education, history and English for secondary teachers, reading, school counseling and school administration)

Psychology, M.A.

Psychology, M.S. (with concentration in clinical/counseling psychology)

Special Major, M.A.

Special Courses

More specific information on the special courses described below can be obtained from the Office of Academic Planning or the appropriate schools and departments.

Comprehensive Examinations. Students now have limited opportunities to spend a full term out of the classroom while preparing for comprehensive examinations that serve as alternatives to regular instruction. Comprehensive examinations are currently available in psychology, sociology and in upper-division general education (see Interdisciplinary Studies 388).

Cooperative Education. The College is developing ways in which students may earn course credit through academically related work experience. Currently available are internship courses in administration, child development, criminal justice, education, geography, political science and sociology.

Words and Ideas. In an attempt to integrate the teaching of composition and logical reasoning, the College offers an optional two-term, 10-unit experimental course called Words and Ideas (Interdisciplinary Studies 100A and B). Students register in this course for two successive terms and receive general education credit in the area of basic studies (equivalent to English 101 and Philosophy 105).

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Self-Paced Courses. An alternative mode of instruction, being developed for a few courses, enables students to set their own learning pace. Some of these, such as French 101-102-103, involve some classroom work. Others, such as Administration 303, 304, 306; French 420 and Social Sciences 215, are conducted on an independent study basis made possible through the use of study guides, video tapes and other instructional resources.

Facilities

The academic program is complemented by an excellent physical plant, consisting of 20 air-conditioned buildings. In addition to the facilities for course work in the arts, letters and sciences, the College has a number of rather distinctive facilities, such as simulation laboratories, a modern instructional center for counseling psychology, an electronic music studio, and a scanning electron microscope.

The College Library

The College Library consists of a general collection of 250,000 books and bound periodicals. The Library subscribes to more than 1700 periodicals and newspapers in addition to other serial publications. The book collection is further augmented by recordings, musical scores, maps, microformat materials, pamphlets and curriculum materials. As a depository for California state documents, the Library regularly receives state publications.

All materials are easily accessible to students. An open-shelf arrangement of the collection gives users convenient access to Library materials.

The Library occupies the first, third and fourth floors and parts of the basement and fifth floors of the Library-Classroom Building in the center of the campus. Special facilities include individual study cubicles and carrels, group study rooms, typing rooms, listening facilities, photo-duplicating service, microform rooms, a map room and seating for about 800 users. Individual or group instruction in Library usage is available upon request.

The Learning Center

The Learning Center has developed a wide variety of services to assist the student in most academic areas. Personal assistance and direction are now available in virtually every area of study and in the following programs:

Tutoring for basic classes, algebra, statistics, foreign languages, and the research and writing of papers.

A self-paced, individually designed program to develop study skills (listening/ notetaking, time management, memory devices, exam taking, reading, library skills and use of the dictionary).

Multimedia delivery of self-instructional programs for vocabulary, spelling, grammar, reading (speed and comprehension), basic math, algebra, statistics and accounting.

Cassette and video tapes of specific classes and foreign languages.

Scheduling of Classes

Two basic plans are used in scheduling classes—four 50-minute periods per week or two 100-minute periods. Principal exceptions occur among laboratory and studio courses and courses which carry fewer than five units credit. The four-period, four-day-per-week format is utilized mostly for morning classes, and the two-period, two-day-per-week format for late afternoon and evening classes. The College attempts to maintain accurate information about changing student needs and to adjust its class schedule accordingly.

Late-Day Classes

Courses offered in the late afternoon and evening are in every respect the equal of courses offered earlier in the day; they have identical prerequisites and requirements and they confer equal credit. Late-day classes have proved to be of convenience to regular and part-time students, teachers, businessmen and others in the community. The proportion of late-day classes has been increasing and stands currently at about 38 percent of all classes.

Evening Services Office

The College maintains an office to serve evening students. This office provides these students with many of the services usually offered during the day, such as academic advisement, help with college regulations and the receiving of late fees and library fines. The office also makes available general information about the College and its activities such as musical and dramatic presentations, lecture series and academic programs. Further information may be obtained from the Office of Academic Planning.

Degree Completion Programs

Increasing opportunities are being developed for part-time students to complete baccalaureate and master's degree programs by attending late-day classes.

Presently offered in the late afternoon and evening is a sufficient range of upper-division course work to complete a major in administration, child development, criminal justice, economics, English, geography, health science, history, humanities, human services, liberal studies, nursing, political science, psychology, sociology, Spanish and vocational education. Also available is upper-division course work for the social sciences major with options in administration, history, psychology and sociology; the psychology option is concentrated in the area of counseling. At the graduate level, master's degree programs are available in business administration, public administration, biology, education and psychology.

Students who wish to undertake a late-day degree-completion program in other fields should consult with the department of their proposed major regarding the availability of required courses and then apply for admission to the College in the usual manner. (Persons with limited study time should note that a single late-day course constitutes one-third of a full load.)

Composition of the Student Body

The student body, as at most urban campuses, is extremely diverse. Most students are under 24 years of age; but because of the large number of mature adult students, especially in the late-day classes, the average student age is 27. Nearly half of the students are married, a majority work at least part-time and many are graduates of nearby community colleges. Most students commute to the campus, but the College does have a fine residential complex on campus.

International Programs

The California State University and Colleges offers opportunities for students to pursue their studies at a distinguished foreign university or special program center. Under the auspices of the CSUC Office of International Programs, participants in this program are concurrently enrolled at their home campus, where they earn academic credit and maintain campus residency, and at an overseas institution of higher education.

Cooperating universities abroad include the University of Provence, France; the Universities of Heidelberg and Tübingen, Germany; the University of Tel Aviv and Hebrew University of Jerusalem in Israel; the University of Florence, Italy; the Universidad Ibero-Americana, Mexico; the Universities of Granada and Madrid, Spain; the University of Uppsala, Sweden; Lincoln University College of Agriculture and Massey University, New Zealand; and Waseda University of Japan.

In the United Kingdom, cooperating universities (which may vary from year to year) include, among others, Aberdeen, Dundee, Edinburgh, Bangor, Heriot-Watt, Leicester, London, Manchester, Nottingham, Oxford, Liverpool, Lampeter, Sheffield, and Strathclyde. In addition, CSUC students may attend a special program in Taiwan, Republic of China, or an architectural program in Copenhagen, Denmark.

Eligibility for application is limited to those students who will have upper-division or graduate standing by September 1978 at a CSUC campus; who have demonstrated the ability to adapt to a new cultural environment; and who, in the cases of France, Germany, Mexico and Spain, will have completed at least two years of college-level study in the language of instruction at the host university, or possess equivalent knowledge of the language. At the time of application, students must have a minimum cumulative grade-point average for all college-level work of 2.5, except for the programs in Israel, New Zealand and the United Kingdom where a minimum GPA of 3.0 is required. Selection is competitive and is based on home-campus recommendations and the applicant's academic record. Final decisions are made by a statewide committee of faculty members, except for the programs in New Zealand and the United Kingdom where final selections are made by the host universities.

The International Programs supports all tuition and other academic and administrative costs overseas for each of its participants to the same extent that such funds would be expended to support similar costs in California. Students assume costs for pre-departure orientation, insurance, transportation, housing and meals. Home campus registration and other fees and personal incidental expenses or vacation travel costs while abroad are also paid by the student.

Nonresident students are subject to nonresident fees.

The Office of International Programs collects and administers funds for those items which the program must arrange or can negotiate more effectively, such as home campus fees, orientation costs, insurance, outbound transportation and, in some centers, housing. International Programs participants may apply for any financial aid available at their home campuses, except for campus work-study.

Applications for the 1978-79 academic year must be submitted before February 10, 1978, except for New Zealand and the United Kingdom. Applications for the New Zealand program must be submitted by May 12, 1978, for participation during calendar year 1979. (The academic year in New Zealand begins in February and ends in October.) United Kingdom applications must be submitted by January 6, 1978.

Detailed information and application materials may be obtained from Dr. Mireille Rydell on campus. Further information may also be obtained by writing to The California State University and Colleges International Programs, 400 Golden Shore, Suite 300, Long Beach, CA 90802.

College Foundation

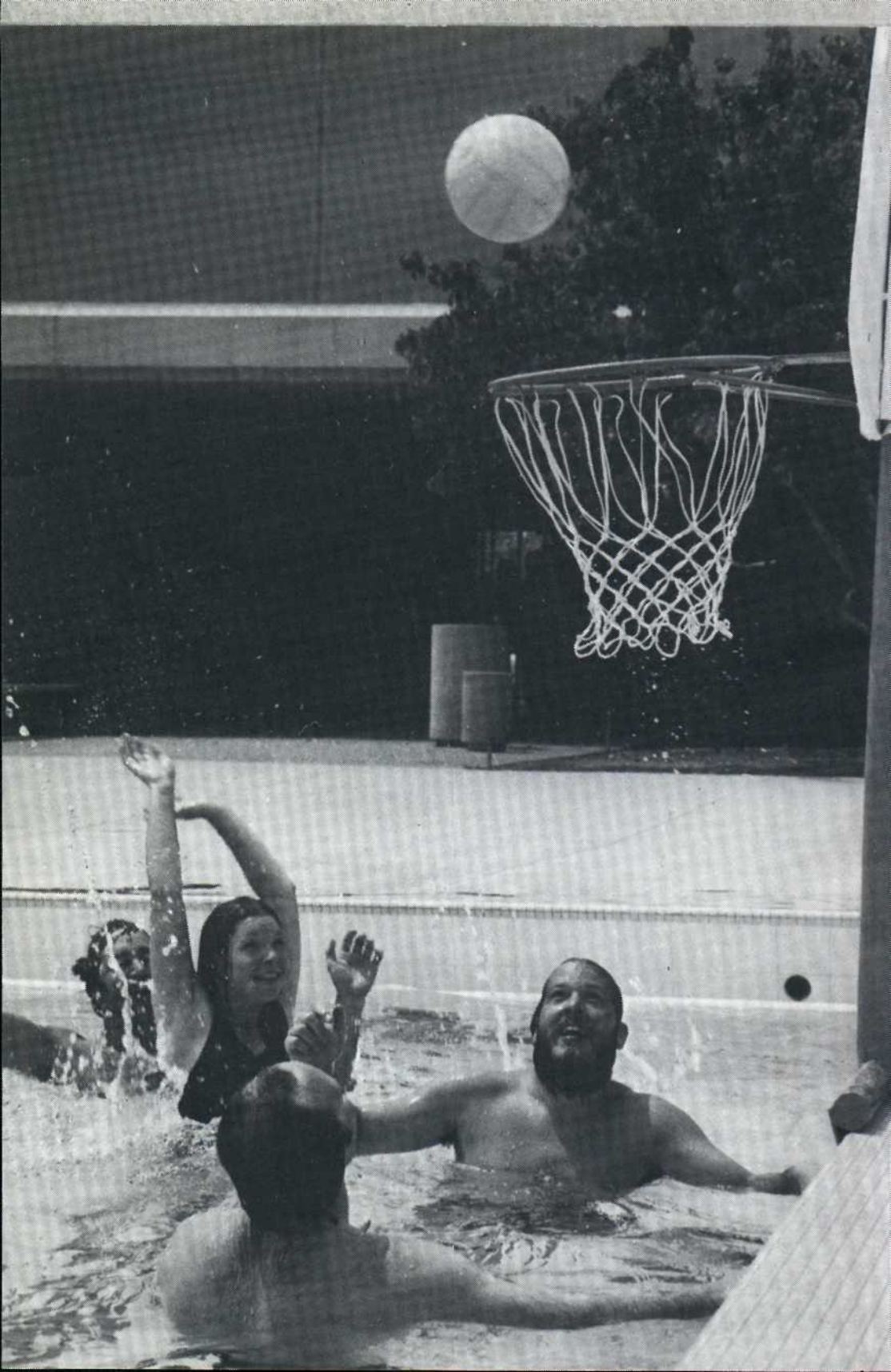
The Foundation of the California State College, San Bernardino, a California nonprofit corporation, was established in 1962 for the purpose of promoting and assisting the educational services of the College. The Foundation Board of Trustees establishes policies for the administration of scholarship and loan funds, federal research grants and the operations of the Commons and Bookstore.

The CSUC Desert Studies Center

The California Desert Studies Consortium operates a Desert Studies Center in the Mojave Desert near Baker, California. The consortium consists of seven campuses of the California State University and Colleges system, with California State College, San Bernardino, serving as the administrative unit. The center offers lodging and laboratory/storage space in support of desert field-oriented courses in biology, geology, geography and anthropology. In addition to providing support for field trips in various disciplines, the center provides a site for independent study courses and research of desert phenomena by individual students, both undergraduates and graduates. Complete details and arrangements for use of the Desert Studies Center are available through the School of Natural Sciences.

Campus Tours

Tours of the Cal State campus are available throughout the year, for individuals or groups. Student visitors interested in obtaining first-hand information about the College's programs or classes may arrange to meet with faculty or administrators. Individuals or small groups also may sit in on class lectures or visit the residence halls, if sufficient prior notice is given for arrangements to be made. Requests should be made through the College Relations Office.



STUDENT LIFE

Housing

Since its opening in 1972, Serrano Village, the College's on-campus residential facility, has become a focal point of student life. Social as well as educational activities are organized by the Village residents with the assistance of the housing staff, making the Village a center for living and learning with other students.

The Village is composed of eight attractive redwood houses. Each house has a main lounge, recreation room, kitchenette, laundry-workroom, sun deck and patio. Both single and double rooms are available. Rooms are arranged in suites so that no more than 10 students share a living room, a study room and bathroom facilities.

The Village has both indoor and outdoor recreational facilities. The indoor area contains pool tables, a ping-pong table, mail boxes and a conversational area. The outdoor recreational area contains a barbeque, patio, volleyball court, ping-pong table, paddle tennis court, sun deck and a swimming pool.

Living on campus is reasonably priced when compared to the rapidly rising costs of commuting and has the added advantage of being near the College Library and other facilities. The rates for living in the Village include meals served at the nearby College Commons. The cost of a double room and meals is approximately \$1350 per year, for example. Several convenient payment options are available.

Any student needing information about housing, either on-campus or off-campus, should contact the Housing Office.

Activities

Recognizing the diverse interests, backgrounds, schedules and lifestyles of today's student, the College and its student organizations strive to provide a rich program of activities. These include orientation for new students, film series, outdoor leisure activities, concerts, lecture series, dances and drama productions and involvement in Associated Students and College governance.

The College encourages and aids formation of organizations which add to the educational opportunities of students. Some of these organizations involve students, faculty and staff working together in professional, recreational, educational, service, religious and cultural activities. Recognized groups have full use of College facilities in planning their programs.

All students are members of the Associated Student Body, which is governed by an executive branch (ASB Cabinet) and a legislative branch (ASB Senate). ASB sponsors an off-campus child care center, book co-op, car pool, newspaper and various other student-initiated services.

The College also sponsors another activity, "Escape" (outdoor leisure pro-

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gram). This program provides students with the opportunity to learn about and discover California's outdoors while participating in leisuretime activities. An attempt is made to create an informal atmosphere which will enable students to make new acquaintances, exchange ideas and develop personal awareness. Examples of "Escape" activities include trips to area amusement parks and sports events, back-packing, skiing, sailing and canoeing.

Intramural Program

All currently enrolled students, skilled or beginner, are eligible and encouraged to participate in the intramural sports program, which provides organized opportunities for vigorous competitive activities.

Students, faculty and other campus community members join in leagues, tournaments and competitions conducted in badminton, basketball, bowling, flag football, golf, handball, paddleball, softball, swimming, tennis, table tennis and volleyball. Additional activities will be offered to meet varying student interests.

Specific information on the intramural program is available from the Intramural Office or the Physical Education and Recreation Department Office.

Recreation

The physical education facilities, playing courts and swimming pool are open daily for recreational enjoyment. All students are encouraged to make use of the gymnasium, courts, playing fields, swimming pool and weight room as long as there is no conflict with classes or other scheduled College events. Also recreational equipment for use on-campus and certain items for off-campus use can be checked out from the Department of Physical Education and Recreation, subject to College regulations.

Since the campus is located only about 45 minutes from mountains, beaches and desert, students have a unique opportunity to explore a variety of recreational activities. Because of student interest in skiing, tobogganing and skin diving, the Associated Student Body has provided equipment which may be checked out for use in these leisure time activities. Student organizations and the Department of Physical Education and Recreation offer a variety of programs that provide an opportunity to become acquainted with these recreational areas.

Questions relating to recreational use of campus facilities or scheduling of facilities for special club or campus organizational use should be directed to the Physical Education and Recreation Office.

Career Planning and Placement

Services of the Career Planning and Placement Office are available to all students of the College. Emphasis is on preparing one's self for employment after graduation. Services include career exploration seminars and materials, advisement on employment and salary trends, counseling about personal satisfaction in career employment, and placement services for graduating seniors and graduate students. In addition, the Placement Office assists enrolled students who are seeking part-time and vacation employment.

The Placement Office serves as a repository for career placement files for the

College's qualified degree and credential candidates who register for placement service. There is no placement services charge for current students. A nominal fee is charged to alumni.

Career Placement Information

The campus may furnish, upon request, information concerning the subsequent employment of students who graduate from programs or courses of study which have the purpose of preparing students for a particular career field. This information includes data concerning average starting salary and the percentage of previously enrolled students who obtained employment. The information provided may include data collected from either graduates of this College or graduates of all campuses in The California State University and Colleges. Interested prospective students may request copies of the published information from the Relations with Schools Office.

Financial Aid

The Financial Aid Office administers a variety of programs to assist qualified students. Sources of aid include the federally sponsored basic and supplementary educational opportunity grants, national direct student loans and the college work-study program. Federally insured student loans are also available. Short-term loans are available for financial crises which require funds rapidly. The office also administers state grants for Educational Opportunity Program students and a federal grant program for qualified employees of law enforcement agencies (LEEP). Nursing student loans and scholarships are available to students enrolled in that program.

For a student interested in working part-time, on or off campus, assistance in obtaining a job is available through the Financial Aid Office.

All applications for scholarships and financial aid must be completed and in the Financial Aid Office by April 1. Late applications are accepted after April 1 and throughout the school year if funds are available. Applicants are required to submit a copy of the student's or parent's most recent federal income tax return and the financial need analysis obtained through the College Scholarship Service. Necessary forms can be obtained from high schools, community colleges or the College.

A full description of the College's financial aid programs is available in the free financial aid brochure.

Scholarships

The scholarships listed below are awarded to new and continuing students in accordance with the terms of the gifts. No special application need be made for these awards unless otherwise indicated. Generally, students must possess a minimum grade-point average of 3.0 (B). Ordinarily, students applying for scholarships are considered for any for which they may be eligible.

The California Parent-Teachers Association (PTA) provides a \$750 scholarship to an upper-division or graduate student entering the field of teaching. The student must be a citizen, of good character, possess a superior academic record, need financial assistance and make a commitment to teach in California for one year.

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The California Retired Teachers Association provides a \$250 scholarship to a senior or graduate student entering the field of teaching. The student is selected on the basis of financial need, academic achievement and school and community activities.

The California State College, San Bernardino Alumni Association provides four \$100 scholarships to graduate transfer students exhibiting financial need, academic superiority and community involvement.

The California State College, San Bernardino Faculty Wives Club provides a scholarship of approximately \$300 to an upper-division student who possesses a superior academic record, financial need and a record of good citizenship.

The Foundation for California State College, San Bernardino provides approximately \$1000 in scholarships to continuing students with superior academic records and financial need. A typical scholarship averages \$300.

The Leslie I. Harris/Bennet Meyers Memorial Fund provides a four-year scholarship to a high school graduate from the San Bernardino area with an outstanding academic record (3.5 grade-point average) and involvement in school activities. The amount of the scholarship is \$600 annually.

Alfred F. and Chella D. Moore Scholarship Fund provides approximately \$10,000 in scholarships to incoming freshmen with outstanding academic records (3.5 grade-point average minimum). The amount of each award is \$600; some awards may automatically be renewed for an additional three years for a total of \$2400. Special application is required for renewal.

The Rialto Education Association provides a \$125 scholarship to a senior or graduate student who is a resident of Rialto and is entering the field of teaching. Selection is based on the student's academic record and financial need.

The Riverside Foundation/Leon S. Heseman Scholarship Fund provides \$3500 for scholarships to undergraduate students with superior academic records, financial need and records of good citizenship. Preference is given to residents of Riverside and San Bernardino counties. Typically, scholarships average \$500 each.

Many students qualify for assistance through other programs not administered by the College. They include veterans benefits, dependents of disabled or deceased veterans, Social Security Administration, State Department of Rehabilitation, Bureau of Indian Affairs and other public assistance agencies. Alan Pattee Scholarships, which waive fees and tuition, are available to surviving children of California peace officers or firemen killed in the line of duty.

California State Scholarships, Graduate Fellowships and College Opportunity Grants. Students apply directly to the California State Scholarship and Loan Commission for these state-sponsored awards which cover the expense of required fees. Application blanks and full information on these awards are available at high schools, community colleges and California State College, San Bernardino.

A table summarizing some of the financial aid resources is on the facing page.

Financial Aid Chart

<i>Types of aid</i>	<i>Who can help</i>	<i>Determination of eligibility</i>	<i>Repayment requirement</i>
A. Scholarships			
Calif. State Scholarships, Fellowships	High school or college counselor	GPA, SAT, need	no
Local scholarships	High school or college counselor	GPA, need	no
College scholarships	College financial aid officer	GPA or GPA and need	no
Nursing program scholarships	College financial aid officer	need	no
B. Grants			
Basic Educational Opportunity Grant	High school or college counselor	need	no
Supplemental Educational Opportunity Grant	College financial aid officer	need	no
College Opportunity Grant	High school counselor	need	no
Educational Opportunity Program Grant	College E.O.P. director or aid officer	need	no
Law Enforcement Educational Grants	College financial aid officer	employment status	no
C. Loans			
National Direct Student Loan	College financial aid officer	need	yes
Federally Insured Student Loan	College financial aid officer	need	yes
Nursing program loans	College financial aid officer	need	yes
D. Work-study			
College work-study program	College financial aid officer	need	no
E. On and off-campus part-time jobs	College placement advisors	—	—

Other aid-related programs are available through the Veterans Administration, California State Rehabilitation, ROTC, Social Security, Bureau of Indian Affairs and other public assistance agencies.

Counseling, Testing and Tutoring

The Counseling and Testing Center aids students in developing their personal resources and in making full use of the opportunities for growth during their college years. The services of the Center are available to all students in need of professional psychological assistance in educational, vocational or personal matters. The Center has available a variety of psychological tests and reading improvement and study skills programs to assist students.

All psychological counseling is completely confidential. Information about a student's use of the Center is not released to anyone without the written consent of the student.

The Counseling and Testing Center aids foreign students with academic and personal adjustment and with College and immigration requirements.

Services of the center are offered to students at no charge.

The center also administers the college entrance test of the American College Testing program (ACT) and graduate record examinations. There is a charge for tests but not for the services of the center in giving them. Information and applications for other nationally administered tests used for college or graduate school entrance also are available from the center.

Educational Opportunity Program

The Educational Opportunity Program is a special admissions program which provides access to a four-year college, and academic and financial support services for students with promising academic qualities, but who for socio-economic reasons might not pursue a college education.

Through the Educational Opportunity Program, the student receives help in admissions, registration, financial aid, housing, curriculum planning, tutoring, counseling, job and graduate school placement and other supportive services, depending upon individual needs.

In addition, Education 25 is offered to all EOP students. This orientation course deals with the topic of "How to succeed in the first year of college."

Upward Bound Program

The Upward Bound Program is a pre-college preparatory program designed to identify and assist low income high school students who demonstrate a potential to succeed in college.

Summer and academic year instructional programs are held in basic skills with tutorial and counseling assistance given to each student. The program also assists students desiring to continue their education by facilitating their admission into college and providing pre-counseling and orientation.

The Upward Bound Program works with seven high schools: Colton, San Bernardino, Pacific, Cajon, San Geronio, Eisenhower and Sierra.

Student Health Center

The Student Health Center provides all services normally administered in a physician's office including lab and x-ray, minor surgery and physiotherapy. Every student is automatically covered by an insurance plan (provided by the

College) which covers 24-hour emergency care at any facility and ambulance charges.

Additional insurance which will cover students and dependents is available at student rates. Students not already protected by an insurance program are urged to consider this supplementary plan. A brochure describing the coverage is given to each student at registration or may be picked up at the Student Health Center.

In addition to the normal daytime hours, the Health Center is open several evenings per week.

Students planning to enroll at the College should submit health information forms before registration.

Disabled Student Services

The Disabled Student Services Office works with disabled students in providing information, referral and problem-solving services. The staff will assist students in ordering books on tape, hiring readers or attendants, and in making special classroom or facility arrangements. In the Library, the College has made available educational aids such as reel-to-reel tape recorders, Braille writers, cassette tape recorders and reference books in Braille and large print.

The Disabled Student Services Office is located in the Activities Resource Center. Students are encouraged to contact the office if they have questions or encounter any difficulties on campus.

College Police

The College Police Department is a fully certified law enforcement agency with primary responsibility for service and protection of the college community.

All officers are empowered by law to enforce all laws of the state of California. Receiving basic and advanced training at the San Bernardino County Sheriff's Academy, the officers are professional peace officers.

The College Police provides a full range of services including criminal investigations, traffic control, patrol and plant security. Services provided to the campus community include property identification, lost and found, jumper cables and assistance to motorists locked out of their cars.

All services are provided 24 hours a day and may be obtained by dialing extension 7557 in emergencies and 7555 for all other requests.

Dean of Students

The Dean of Students Office provides general information regarding the campus and assistance with students' problems. The office can provide information concerning campus policies, procedures and regulations and can advise students on such matters. Information and counseling regarding College grievance procedures and the Family Rights and Privacy Act are available here also. A fuller statement on students' privacy rights is on Page 251 in the Appendix.

Child and Infant Care Centers

A Child Care Center and an Infant Care Center are available to accommodate

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the children of the College's students, faculty and staff. Operated through the College Foundation, they accept children from three months through 12 years. Further information on the centers, currently located a half mile from campus, is available from the Special Services Office in the Student Services Building.

Alumni Association

All graduates of the College are eligible to join and participate in the activities of the California State College, San Bernardino Alumni Association. Also eligible are those who earn credentials through the College and members of the senior class.

The purpose of the nonprofit association is to: assist alumni in continued cultural and educational development, further the community interests of the College, establish mutually beneficial relationships between the College and its alumni, and promote the educational goals of the College. Additional information may be obtained from the Associate Dean of Students, Placement and Financial Aid.

The Commons

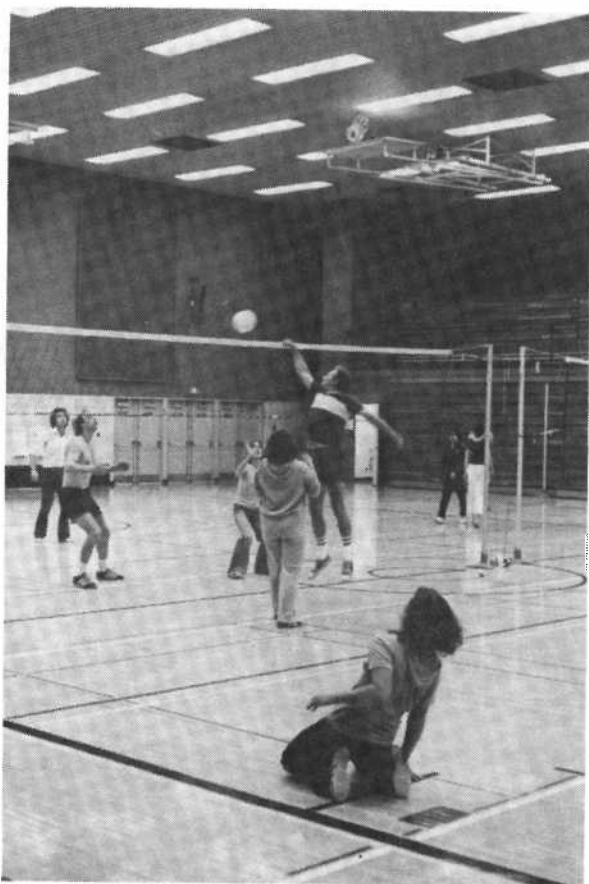
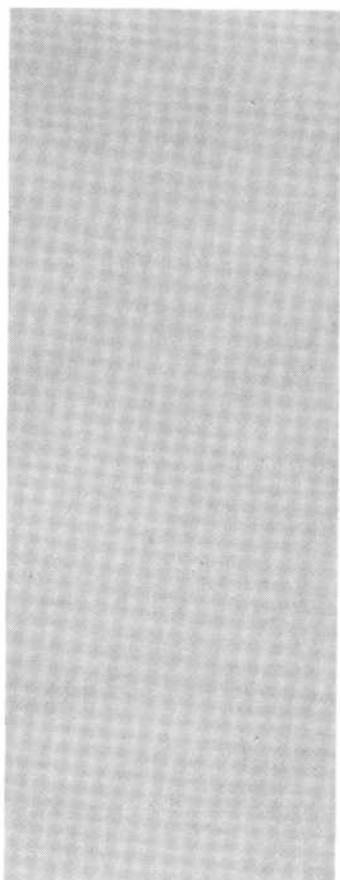
The Commons, one of the social centers of the campus, serves residential and commuter students, faculty and staff. The facility offers an attractive view of the mountains which provides a pleasant atmosphere for eating and relaxing.

Bookstore

Students are able to purchase or order books and supplies needed for classes plus magazines, records, class rings and personal items from the on-campus bookstore, owned and operated by the College Foundation. The bookstore is a nonprofit operation, with proceeds used to further the educational aims of the College.

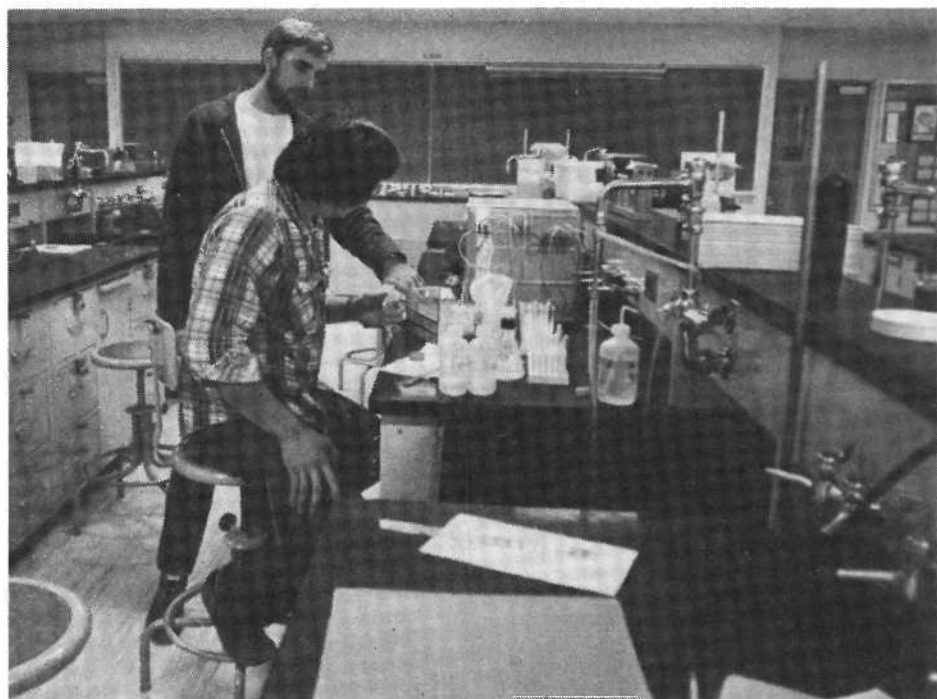
Student Responsibility

Students at the College are subject to all federal, state and local laws as are other citizens. Of particular importance are regulations established by the State of California through its Education Code. In addition, Board of Trustees and local College regulations directly affect student life on campus. Pertinent portions of these documents are made available to students at registration; complete files are available at all times in the Dean of Students office. Students are expected to be responsible for their actions and to abide by established policies and regulations.



Recreation . . . on and off campus





ADMISSION TO THE COLLEGE

Requirements for admission to the California State College, San Bernardino are in accordance with Title 5, Chapter 1, Subchapter 3, of the California Administrative Code. A prospective applicant who is unsure of his status under these requirements is encouraged to consult a high school or college counselor or the Admissions Office. Applications may be obtained from the admissions office at any of the campuses of The California State University and Colleges or at any California high school or community college.

A student who is admitted to the College for a given term but who does not register in that term must file a new application form and \$20 application fee when he again seeks admission and must meet the then current admission requirements.

Undergraduate Application Procedures

Prospective undergraduates, whether applying for part-time or full-time programs of study, in day or evening classes, must file a complete application including all the required forms and fees as described in the application booklet. The \$20 non-refundable application fee should be in the form of a check or money order payable to The California State University and Colleges.

Undergraduate applicants may file only at their first choice campus. An alternate choice campus and major may be indicated on the application, but an applicant should list as an alternate campus only that campus of The California State University and Colleges that he will attend if his first choice campus cannot accommodate him. Generally, an alternate degree major will be considered at the first choice campus before an application is redirected to an alternate choice campus. Applicants will be considered automatically at the alternate choice campus if the first choice campus cannot accommodate them. Transcripts and other supporting documents should not be submitted until requested by the campus.

Category Quotas and Systemwide Impacted Programs

Application quotas have been established by some campuses, in some majors, where the number of applicants is expected to exceed campus resources. All applications received in the first month of a filing period will receive equal consideration for such categories. A small number of undergraduate programs are impacted throughout the 19-campus system. Applicants to such programs are expected to meet supplementary admission criteria for admission to these programs. Applicants will be sent further information by the campuses about the supplementary criteria to be used. Applicants to impacted programs must apply during the first month of the filing period.

Postbaccalaureate Application Procedures

All applicants for any type of postbaccalaureate status (for example, master's degrees, credentials and courses for professional growth) must file a complete application within the appropriate filing period. Candidates for second baccalaureate degrees should apply as undergraduate degree applicants. A complete application for postbaccalaureate status includes all of the materials required for undergraduate applicants plus the supplementary graduate admissions application. Applicants who completed undergraduate degree requirements and graduated the preceding term are also required to submit an application and the \$20 non-refundable fee.

Since applicants for postbaccalaureate programs may be limited to the choice of a single campus on each application, redirection to alternative campuses or later changes of campus choice will be minimal. If a postbaccalaureate applicant wishes to be assured of initial consideration by more than one campus, a separate application (including fee) must be submitted to each.

Application Filing Periods

<i>Terms in 1977-78</i>	<i>First accepted</i>	<i>Filing period duration</i>	<i>Student notification begins</i>
Summer quarter 1977	Feb. 1, 1977	Each campus accepts applications until capacities are reached.	March 1977
Fall semester or quarter 1977	Nov. 1, 1976	Most accept applications up to a month prior to the opening day of the term.	Dec. 1976
Winter quarter 1978	June 1, 1977	Some will close individual programs as they reach capacity.	July 1977
Spring semester or quarter 1978	Aug. 1, 1977		Sept. 1977

Space Reservations

Applicants who can be accommodated receive a space reservation notice. Although a space reservation is not a notice of admission, it is a commitment by the College to admit the student once eligibility has been established. The space reservation directs the student to arrange to have appropriate records forwarded promptly to the Office of Admissions. Applicants should not request that any records be forwarded until they have received a space reservation notice.

Hardship Petitions

Each college has established procedures to consider qualified applicants who would be faced with an extreme hardship if not admitted. Prospective hardship petitioners should contact the College regarding specific policies governing hardship admission.

Recommended High School Preparation

Overall excellence of performance in high school subjects and evidence of academic potential provide the basis for admission to the College. While no specific course pattern is required, the applicant, to be properly prepared to

undertake a full program of studies, is strongly encouraged to include the following subjects in his high school program:

College preparatory English, foreign language, college preparatory mathematics, college preparatory laboratory science, college preparatory history and/or social science, plus study in speech, music, art and other subjects contributing to a strong academic background.

Undergraduate Admission Requirements

First-time freshman eligibility is governed by an eligibility index. The index is computed using the high school grade-point average on all course work completed in the last three years of high school, exclusive of physical education and military science; and the ACT composite or the SAT total score. The table of grade-point averages, test scores and the equation by which the index is computed is reproduced on Page 245. Results of either the CEEB Scholastic Aptitude Test (SAT) or the American College Testing Program examination (ACT) are acceptable in establishing eligibility.

Registration forms and dates for either test may be obtained from school or college counselors, from the addresses below, or from the campus testing offices. For either test, submit the registration form and fee at least one month prior to the test date.

ACT
American College Testing Program
Registration Unit, P.O. Box 168
Iowa City, Iowa 52240

SAT
College Entrance Examination Board
Box 592
Princeton, N.J. 08540

First-Time Freshmen (California high school graduates and residents)

An applicant who is a graduate of a California high school or a legal resident for tuition purposes must have an eligibility index which places him among the upper one-third of California high school graduates. The minimum acceptable index for applicants using the SAT score is 3072; using the ACT score, 741.

First-Time Freshmen (high school graduates from other states and U.S. possessions)

The admissions requirements for nonresident applicants are more restrictive than those for California residents. An applicant who is a nonresident for tuition purposes and is a graduate of a high school outside California must have an eligibility index which places him among the upper one-sixth of California high school graduates. The minimum acceptable index for nonresident applicants using the SAT score is 3402; using the ACT score, 826.

First-Time Freshmen (graduates of secondary schools in foreign countries)

An applicant who is a graduate of a secondary school in a foreign country or who has equivalent preparation in a foreign country may be admitted as a first-time freshman if his preparation and ability are such that, in the judgment of the appropriate campus authority, the probability of his academic success is equivalent to that of eligible California high school graduates.

First-Time Freshmen (high school nongraduates)

An applicant who is over 18 years of age, but has not graduated from high school, will be considered for admission only when preparation in all other ways

is such that the campus believes promise of academic success is equivalent to that of eligible California high school graduates.

Undergraduate Transfers (resident and nonresident)

Transfer admission eligibility is based on *transferable* college units attempted, rather than on all college units attempted. The California community college transfer should consult his college counselor for information on transferability of courses. An applicant in good standing at the last college attended may be admitted as an undergraduate transfer if he meets either of the following requirements:

1. He was eligible for admission in freshman standing and has earned an average grade of C (2.0 on a scale where A equals 4.0) or better in all transferable college units attempted.
2. He has completed at least 56 transferable semester units or 84 transferable quarter units with an average grade of C (2.0) or better if a California resident. Nonresidents must have a GPA of 2.4 or better.

International (foreign) Students

Applicants for admission as either graduates or undergraduates whose education has been in a foreign country should file an application for admission, official certificates and detailed transcripts of record from each secondary school and collegiate institution attended several months in advance of the opening of the quarter in which the applicant expects to attend. If certificates and transcripts are not in English, they should be accompanied by certified English translations. Credentials will be evaluated in accordance with the general regulations governing admission to California State College, San Bernardino.

An applicant whose education has been in a language other than English must take the Test of English as a Foreign Language (TOEFL). This test is administered in most foreign countries and test scores must be received by the College before admission to the College can be granted. Information as to the time and place at which this test is given may be obtained from: Educational Testing Service (TOEFL), Princeton, New Jersey 08540, U.S.A.

Foreign applicants must also submit a statement of financial responsibility to the international student advisor to be considered for admission to the College. Also, foreign students are required to submit evidence of adequate medical/hospital insurance to the international student advisor.

Arrangements for housing should be completed before the student's arrival on the campus. Detailed information regarding housing may be obtained from the Director of Housing, California State College, San Bernardino. Scholarship aid for entering students is limited; no scholarships are specifically reserved for students from another country.

Upon arrival at California State College, San Bernardino the student should obtain an appointment as early as possible with the foreign student advisor.

English Placement Test

On May 26, 1976, the Board of Trustees approved a resolution requiring a writing proficiency/diagnostic examination for all entering lower-division students to be initiated no sooner than September 1977. Students are advised to

obtain further information from the Office of Academic Planning on currently available methods for meeting this requirement. The results of the writing examination will not affect admission eligibility.

Admission of Postbaccalaureate and Graduate Students

Requirements pertaining to the admission of postbaccalaureate and graduate students are contained in the section on Graduate Programs, Page 71.

Returning Students

Students in good standing may be readmitted to the College after an absence of one term by filing a registration packet code sheet. The application and fee of \$20 are required if the student was not enrolled in any of the three terms (excluding summer session) prior to the term for which he is seeking admission or if he was enrolled in another institution during his absence from the California State College, San Bernardino.

High School Students

Students still enrolled in high school will be considered for enrollment in certain special programs if recommended by the principal and if preparation is equivalent to that required of eligible California high school graduates. Such admission is only for a given program and does not constitute the right to continued enrollment. Courses appropriate for high school seniors are scheduled at hours which will facilitate their attendance. A brochure describing the program is available from the Office of Admissions and Records.

Other Applicants

An applicant not admissible under one of the above provisions should enroll in a community college or other appropriate institution. Only under the most unusual circumstances will such applicants be permitted to enroll in the College. Permission is granted only by special action of the College.

Transfer of Credit

A maximum of 70 semester units (105 quarter units) of work taken at a community college can be applied toward the requirements for a degree from the College. No upper-division credit may be allowed for courses taken in a community college. No credit may be allowed for professional courses in education taken at a community college, other than an introduction to education course.

The Office of Admissions and Records will evaluate previous college work to determine its applicability to the requirements of the College. All undergraduate degree candidates will be issued a credit summary, indicating requirements which remain unfilled. Once issued to a student, the credit summary remains valid as long as the student matriculates at the date specified, pursues the objective specified, and remains in continuous attendance. Students will not be

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held to additional graduation requirements unless such requirements become mandatory as a result of changes in the California Administrative Code or the California Education Code.

Credit for work completed at institutions of recognized accreditation will be accepted toward the satisfaction of degree requirements at the College within limitations of residence and major requirements, community college transfer maximums, and course applicability.

Advanced Placement for Entering Students

The College grants credit toward its undergraduate degrees for successful completion of examinations of the advanced placement program of the College Entrance Examination Board. Students who present scores of three or better will be granted ten quarter units of college credit. For information on taking advanced placement examinations, students should consult their high school counselors.

College credit is also awarded to students who present appropriate scores on the College Level Examination Program general examination in the areas of social sciences, mathematics, natural science and humanities. Credit is also awarded for examinations in certain subjects. A list of the subjects for which credit can be awarded is available in the Office of Admissions and Records.

Information concerning other testing programs also is available in the Office of Admissions and Records.

Credit for Extension and Correspondence Courses

A maximum of 36 quarter units of credit earned through extension may be applied to a baccalaureate degree program. A maximum of 13 quarter units of graduate credit earned through extension registration may be accepted toward a master's degree program. No credit so earned may be used to satisfy the college residence requirement.

Only those credits will be accepted for transfer which are acceptable toward a degree or credential at the institution offering the courses.

Credit for Military Service

The College grants nine quarter units of lower-division undergraduate credit to veterans with a minimum of one year of active duty in the armed forces of the United States. This credit is applied as electives and may not apply toward the requirements in general education.

A limited amount of additional credit may be granted to students who have completed certain service schools in addition to basic training. This credit is allowed on the basis of recommendations of the Commission on Accreditation of Service Experiences of the American Council on Education.

Admission to Teaching Credential Programs

Admission to the College as a student does not constitute admission to a teaching credential program. Students who intend to work toward credentials should make application to the School of Education of the College.

Admission as an Auditor

A student who wishes only to audit a course instead of enrolling for credit must complete a statement of residence issued by the Office of Admissions and Records. Auditors must pay the same fees as would be charged if the courses were taken for credit. Enrollment as an auditor is subject to the approval of the instructor. A student registered as an auditor may be required to participate in any or all classroom activities at the discretion of the instructor. Credit for courses audited will not be subsequently granted on the basis of the audit. Transcripts are not issued for students enrolled as auditors only.

Permission to register as an auditor is by appointment with the Registrar after the second day of registration.

Admission to Summer Session

Students interested in attending summer session only do not need to file an application for admission to the College. Instructions for applying for summer session only are included in the Summer Session Bulletin. Attendance at summer session does not automatically constitute admission to the College for ensuing regular terms.

Readmission of Previously Disqualified Students

After receiving notice of disqualification, a student may petition the Admissions and Academic Standards Committee for readmission to the College on probation. All petitions for readmission must be submitted to the Office of Admissions and Records two weeks before the first day of registration for the term in which the student would enroll.

Admission on Academic Probation

An applicant with advanced undergraduate standing who does not meet the requirements stated above is eligible for admission on probation, if, in the opinion of the proper college authorities, he is likely to succeed in college.

Ordinarily, consideration for probationary admission is granted only to the mature applicant who, while his total college record does not meet the admission requirements, has demonstrated sufficient academic ability through college work recently completed elsewhere.

Applicants who are admitted with a grade-point deficiency are given probationary status and are subject to the probation and disqualification regulations as stated on Page 59. A student admitted on probationary status may be restricted by his advisor to a limited program.

Servicemen's Opportunity College

California State College, San Bernardino has been designated a Servicemen's Opportunity College. It is one of a network of institutions throughout the nation able to provide opportunities for service men and women to pursue educational programs compatible with their duty assignments, through a combination of traditional and nontraditional means.

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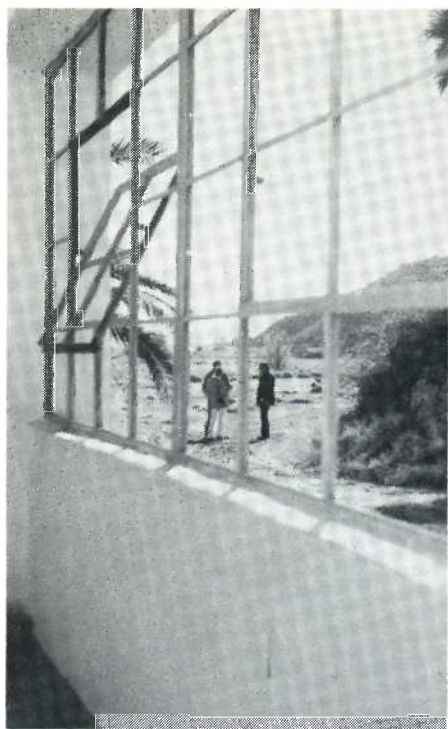
Individuals interested in this program are invited to contact the Office of Academic Planning for further details.

Determination of Residence

The determination of whether a student qualifies as a resident for admission and tuition purposes is made by the College after review of a residence questionnaire, designed to provide necessary information including the applicability of any exceptions. A statement summarizing the principal rules regarding residency determination and their exceptions is included in the appendix.

Requirement and Use of Social Security Number

Applicants are required to include their social security number in designated places on applications for admission pursuant to the authority contained in Title 5, California Administrative Code, Section 41201. The social security number will be used as a means of identifying records pertaining to the student as well as identifying the student for purposes of financial aid eligibility and disbursement and the repayment of financial aid and other debts payable to the College.



Desert Studies Center





FEE SCHEDULE

The regular fees of the College are given below. Students are required to pay registration fees at registration. Tuition is not charged to legal residents of California.

Checks will be accepted at registration only for the amount of fees due. The following fees are non-refundable: application and identification fees.

The following reflects the fees and expenses for the quarter system:

All Students

Application fee (non-refundable, payable by check or money order at time of applying).....\$	20.00
Student service fee:	
0–6.0 units	38.00
6.1 or more units	48.00
Facilities fee	2.00
Associated Students fee:	
fall	5 units or less 4.00
winter	more than 5 units 8.00
spring	3.00 6.00
summer.....	3.00 6.00
Student identification card fee	1.00
Student union fee:	
fall	8.00
winter	6.00
spring	6.00
summer session.....	6.50

Nonresidents (foreign and domestic)

Tuition: less than 15 units, per unit or fraction	35.00
15 or more units, maximum	525.00

(Note: Tuition is in addition to other fees required of all students. The total nonresident tuition charge shall not exceed \$1,575 per academic year.)

Residence halls (for academic year)

Room and board (19 meals per week), double room	1350.00
Room and board (19 meals per week), single room	1500.00
Room and board (19 meals per week), super single	1650.00

Summer session fee

Per quarter unit of credit	22.00
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Special fees

Credential fee	20.00
Special fee for certain studio art courses	5.00–10.00
Late registration	5.00
Failure to meet required appointment or time limit.....	2.00
Graduation fee	6.00
Certificate fee	6.00
Parking fees (per quarter)	
First vehicle	10.00
Two-wheeled vehicle	2.50
Each alternate in addition to first vehicle	2.00
Summer session (six-week session)	6.00
Check returned for any cause.....	5.00
Replacement of registration packet	2.00
Transcript of academic record	1.00
Master's degree thesis	contact Office of Academic Planning

NOTE: Fees subject to change without advance notice.

No fees of any kind shall be required or collected from those individuals who qualify for such exemption under the provisions of the Alan Pattee Scholarship Act.

Student Services Fee

A student services fee has been established by the trustees of The California State University and Colleges in lieu of a previous material and service fee. It provides financing for various student services programs not covered by state funding. A full description of the allocation of the fee may be found in the appendix, Page 250.

Alan Pattee Scholarships

Children of deceased California public law enforcement or fire suppression employees, who were killed in the line of duty, are not charged fees or tuition of any kind at any California State University or College, according to the Alan Pattee Scholarship Act. Students qualifying for these benefits are known as Alan Pattee scholars. Further information is available at the Office of Admissions which determines eligibility.

Veterans' Dependents Exemptions

Certain dependents of U.S. veterans with service-connected disabilities and veterans who have been killed in service or died of a service-connected disability may be eligible for waiver of college fees. The annual income of the surviving parent cannot exceed \$5000. Further information is available at the Veterans Office.

Refund of Fees

Fees may be refunded only as authorized by Sections 41802, 41803 and 41913 of Title 5, California Administrative Code. Whether a fee may be refunded and the circumstances under which a refund is possible vary depending on the particular fee involved. Requirements governing refunds may include such matters as the reason (for example, death, disability, compulsory military service), the number of days of instruction which have elapsed before application for refund is made (for example, requests for refund of student services fees, Associated Student Body fees and student union fees must be made no later than 14 days following the start of instruction and requests for refund of extension course tuition fees must be made prior to the fourth meeting of the class), and the degree to which the campus has provided the services for which the fee is charged. Details about refunds and the appropriate procedure to be followed may be obtained from the Business Office.

Students registered for credit or audit who change their program to a lesser number of units may not receive a refund of the student services fee.

Upon a student's withdrawal from all classes, the student services fee may be refunded if written application for refund, on forms provided by the Registrar, is submitted to the Bursar not later than 14 calendar days (includes Saturdays, Sundays and holidays) following the first day of classes. However, \$5.00 shall be retained to cover the cost of registration. Students registered for credit or audit who make changes in their program resulting in a lower fee category may receive a refund consisting of the difference in student services fees between the higher or lower fee category, less \$5.

Nonresident tuition is refunded on a prorated basis during the first four weeks of instruction according to the following schedule: 100% before or during the first week of instruction, 75% during the second week, 50% during the third week, 25% during the fourth week.

Student Union and Associated Student Body fees are fully refundable during the first 14 calendar days of the quarter.

Parking fees are refunded, upon surrender of the decal, according to the following prorated schedule. Regular quarter: 66% during the first 25 calendar days of the quarter, 33% during the 26th through 50th calendar days, no refund after the 50th day. Summer session (based on calendar days commencing on the day instruction begins): 66% refunded during the first 10 days, 33% during the 11th through 20th days, no refunds after the 21st day.

Estimated Costs per Quarter

It is estimated that students pay about \$50 each quarter for books and \$65 for fees plus parking costs.

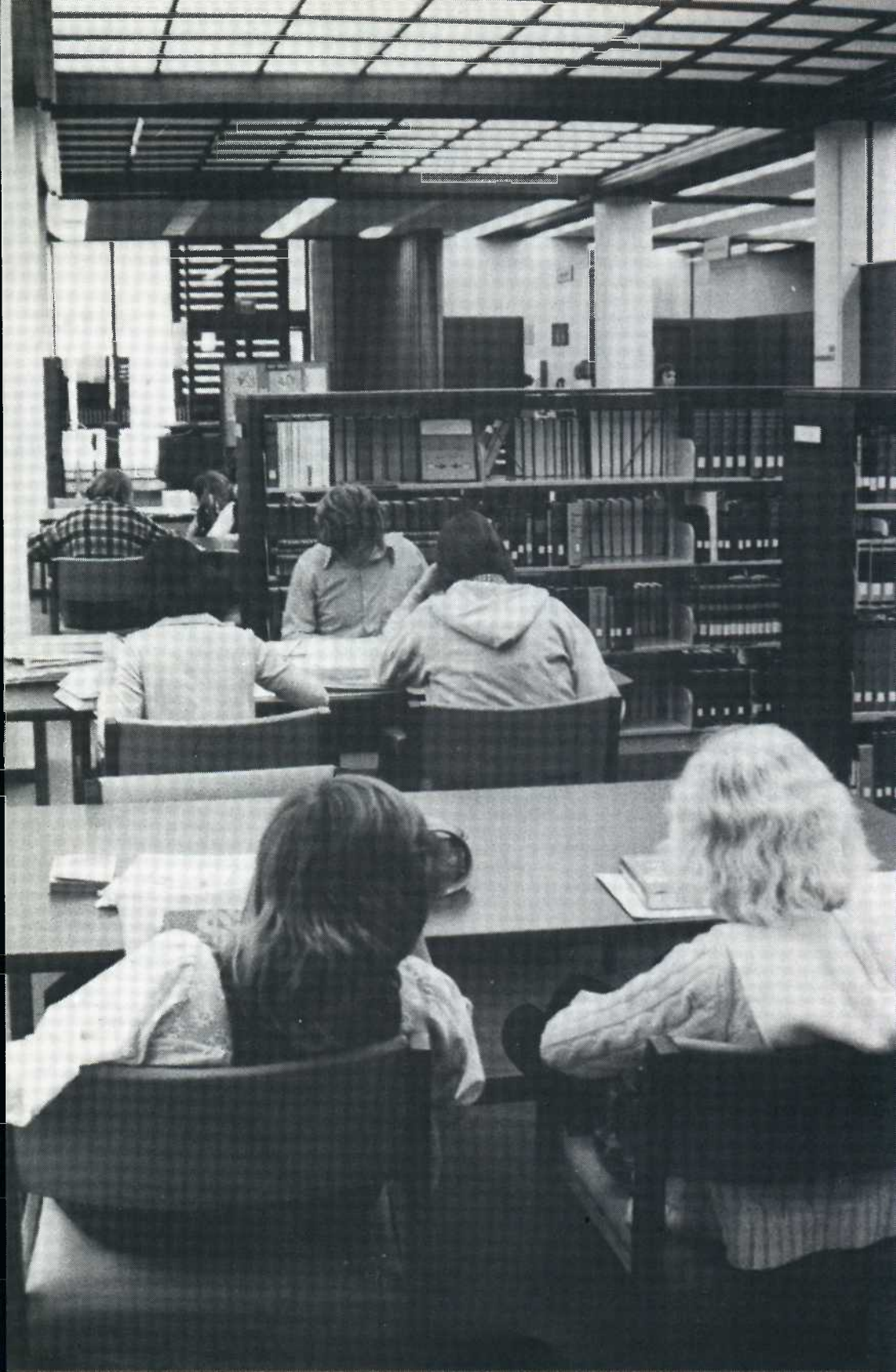
Debts Owed to the College

If a student becomes indebted to the College, the College is authorized by Title 5 of the California Administrative Code to withhold "permission to register, to use facilities for which a fee is authorized to be charged, to receive services, materials, food or merchandise or any combination of the above" until the debt is paid.

Such debts could occur if a student fails to repay money borrowed from the College or to pay dormitory or library fees or for other services provided at his request.

Under these provisions, the College may deny permission to register or may withhold other services, such as grades and transcripts.

If a student feels that he does not owe all or part of a particular fee or charge, he should contact the College business office which will review the matter, including information the student may wish to present, and will advise the student of its conclusions.



ACADEMIC REGULATIONS

All students who register at California State College, San Bernardino in resident study for either the fall, winter or spring quarter must first be admitted to the College by the Office of Admissions.

No student may attend classes until his registration has been completed.

Registration is complete only when official programs are properly filed and all fees are paid. Students are required to make all payments on the regularly announced days.

Students are granted credit only for those courses in which they are formally registered and are responsible for completing all courses entered on their official student assignment slips, except those courses they officially change by filing a change of assignment with the Office of Admissions and Records.

Class Level of Students

Students are classified at the end of each quarter according to total earned credits accepted for transfer and/or completed at the California State College, San Bernardino as follows:

<i>Status</i>	<i>Units earned</i>
Lower division	
Freshman	0–44.9 quarter units
Sophomore	45–89.9 quarter units
Upper division	
Junior	90–134.9 quarter units
Senior	135 quarter units or more
Postbaccalaureate	Holding baccalaureate degree from an accredited college and not pursuing a graduate degree program
Unclassified	No degree, credential or certificate objective
Classified	Pursuing a credential or certificate
Graduate	Postbaccalaureate student pursuing a graduate degree
Conditionally classified	Completing prerequisite requirements
Classified	Admitted to the degree program

Advisory System

Every student is assigned a faculty member as an advisor upon entrance into the College. In general, the faculty advisor is in the area of the student's major interest. Other advisors are provided for students who have not yet chosen a major field of concentration.

In addition to meeting with students during designated class hours, faculty members hold regularly scheduled office hours, which are posted outside their offices. A student who is unable to see a faculty member during class or the posted office hours may arrange an appointment by contacting the appropriate department office.

The Counseling and Testing Office offers specialized counseling in career choice and personal matters. In addition, the Career Planning and Placement Office can assist students and alumni in career planning and jobs placement.

Academic Course Load: Undergraduates

The normal full-time course load is 15 quarter units, but a student may carry up to 19.5 quarter units with the advisor's consent.

A student may carry 20 or more units only upon petition to the school dean. Course overload cards and certifications of grade-point averages are available at the Office of Admissions and Records. Normally, petitions are approved only if both the grade-point average for the previous term and the overall grade-point average are 3.0 or better.

Academic Course Load: Postbaccalaureate and Graduate Students

The normal academic load for a postbaccalaureate or graduate student is 10 quarter units. To enroll in more than 15 units in any one quarter, a student must have written approval of the advisor and the Associate Dean of Graduate Studies. Students who must work to support themselves, who have time-consuming family responsibilities, who commute long distances, or who are in other difficult circumstances, should, in conjunction with their advisors, weigh these factors and alter their course loads accordingly.

Accelerated Progress

Some students choose to accelerate progress toward completion of their objectives through a program of independent study, summer course enrollment and registration for additional course credits.

Credit-by-examination procedures permit students to demonstrate their mastery of the content of local courses, courses offered through the Advanced Placement Program and the College Level Examination Program.

In some instances, registration in summer sessions permits the completion of one full quarter, 15 units, of degree-applicable work.

Students wishing to enroll for additional course work during the academic year should follow the procedures described in the sections on academic course loads, above.

Credit for Comprehensive Examination Courses

Any student admitted to this campus may earn degree credit for no more than three comprehensive examination courses regardless of the total units earned in those courses. This maximum is to be counted separately from all other out-of-class curriculum options (for example, credit by examination and placement examinations). The student's major discipline may further restrict the number of comprehensive examination credits acceptable toward the major.

Credit by Examination

A student may petition to receive course credit by examination. In this manner a student who already possesses, or through independent study is able to acquire, the ideas and concepts of a course can accelerate progress through the college. Students must register for the examination in the office of the school or department concerned during the first five days of the term in which the course is offered. Some presumptive evidence is required to indicate that the student has a reasonable chance of passing the examination. The student must complete the examination within the first four weeks of the term. A limited number of courses may be designated by a school as inappropriate to be challenged by examination.

No fee is charged for these examinations. A student who passes an examination is given credit for that course toward graduation, provided that this does not duplicate credit counted for his admission to the College. No official record is made of failures in these examinations.

Examinations for course credit are given under the following restrictions:

1. They may be taken only by persons who are pursuing a degree at this College.
2. They may be taken only by currently enrolled students or if not currently enrolled by students who
 - a. need no more than four full-term courses to complete their degrees and
 - b. have met all other requirements for the degree.
3. They may not be taken by students who have received credit for work in the subject in advance of the course in which the examination is requested, except where permission is granted by the school or department concerned.
4. They may not be taken to raise grades or remove failures in courses.
5. A maximum of 40 units of credit may be received through such examinations.
6. A student may repeat an examination for credit only upon approval of the Dean of Academic Planning.
7. Credit by examination may not be used to fulfill the minimum residence requirement.
8. The course must be offered during the term in which the examination is taken.

Exact times and places of examinations are announced by the departments concerned. Students who wish to take an examination should consult the departmental office well in advance.

Credit by examination cannot be earned during the summer sessions.

Concurrent Enrollment

Procedures have been established whereby a student in good academic standing at the California State College, San Bernardino who has completed at least 18 quarter units of work at the College and who is eligible to register as a continuing student for the immediately subsequent term may enroll concurrently at another campus of the California State University and Colleges system. The procedure enables a student to attend another campus within the system, on a term by term basis, without submitting the formal application for admission form and paying the \$20 application fee. For information regarding the procedure, contact the Office of Admissions and Records.

For concurrent enrollment at an institution other than those within the California State University and Colleges system, approval of the Dean of Academic Planning is required.

R.O.T.C. Programs

Students at the College can participate through concurrent enrollment in R.O.T.C. programs at other colleges in southern California. Information about these programs can be secured from the Office of Academic Planning.

Class Schedule

An official class schedule, prepared each quarter by the College, includes the registration schedule, procedure for registration, fees, classes offered by hours and instructors, and other pertinent registration information. The schedule is available several weeks in advance of registration each quarter and may be purchased at the College Bookstore. Students are responsible for being aware of information contained in the class schedule.

Late Registration

The last day for late registration each term will be announced in the class schedule. The College calendar, Pages 4 and 5, lists registration dates. Late registrants may find themselves handicapped in arranging their programs due to closed classes. A \$5 late registration fee is required.

Adding Classes

Students may enroll for credit in courses until the last day to add classes. This date is indicated for each term in the College calendar and the class schedule.

Auditing Courses

Enrollment in any course as an auditor shall be permitted only after students otherwise eligible to enroll in the course on a credit basis have had an opportunity to do so and only upon consent of the instructor. Auditors are subject to the same fee structure as credit students and regular class attendance is expected.

Credit for courses audited will not subsequently be granted on the basis of the

audit. Transcripts are not issued for audited courses.

Once enrolled as an auditor, a student may not change to credit status unless such a change is requested prior to the last day to add classes and is approved by the instructor and the advisor. A student registered for credit may change his status to audit with the approval of his advisor and the instructor concerned and within the prescribed time limits for dropping a course.

Forms for such changes may be secured from the Office of Admissions and Records. Registration is by appointment with the Registrar.

Class Attendance

Class attendance is expected of all students enrolled at the College. The instructor in each course sets the standard he expects his students to meet in this regard. Students may be dropped early in the term for non-attendance. See class schedule for details.

When a student is absent from classes, it is his responsibility to inform his instructors of the reason for his absence and to arrange to make up missed class work and assignments. If a student expects to be absent from his classes for two weeks or more, he should notify the Office of the Dean of Students. Should the absence be for the remainder of the term, withdrawal from the College should be initiated by the student in the Office of Admissions and Records. (See section on withdrawal from college.) Where such absence or withdrawal is caused by illness, the student must report to the Health Center upon return to the College.

Leave of Absence

A student may petition to the Dean of Academic Planning for a leave of absence from the College for any reason and, if the petition is approved, may, upon his return, continue under the catalog requirements which applied to his enrollment prior to the absence. Except in the case of military service, a leave of absence may be granted for a maximum of one year.

Illness and military service are routinely approved reasons for a leave of absence. An undergraduate student may also petition for such a leave of absence for purposes of undertaking a program elsewhere which will be consistent with the objectives of California State College, San Bernardino and which is not available on this campus.

Students obtaining a leave of absence after the last day to withdraw without penalty will receive grades of W in all courses.

The granting of a leave of absence does not constitute a waiver of the requirement for applying for readmission and paying the application fee.

Withdrawal from a Class or the College

Each student is assigned a grade for every course appearing on his official student assignment.

If a student withdraws officially from the College or from a class by the end of the third week of class (see College calendar for exact date), the course is not recorded on the permanent record.

Withdrawal after the third week, and prior to the last three weeks of instruc-

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tion, is permissible only for serious and compelling reasons. Permission to withdraw during this time period must be obtained from the instructor and the school dean.

Withdrawal will not be permitted during the final three weeks of instruction except in cases such as accident or serious illness where the cause of withdrawal is due to circumstances clearly beyond the student's control and the assignment of an incomplete grade is not practicable. Withdrawal during this period requires the approval of the instructor, the school dean and the Dean of Academic Planning.

A grade of W will be assigned for approved withdrawals occurring after the third week of instruction.

A student who withdraws from all classes in which he is enrolled must officially withdraw from the College.

Final Examinations

Written examinations of two hours duration are held at the close of each term. In courses extending over more than one term, the examination in the concluding term may also cover work done in the preceding term or terms. Examinations may not be taken before or after the scheduled period nor may the time of an examination be changed without authorization by the Dean of Academic Planning. Permission to take a final examination with a different section in the same course may be granted by the Dean of Academic Planning with the consent of the instructors concerned. Failure to take or to pass any final or other course examinations will result in such deficiencies as instructors may assign.

Final Grade Report

Final grade reports will be available to students within two weeks after the last day of each quarter.

Grades

The grade symbols used at the College are as follows:

<i>Grade symbol</i>	<i>Performance level</i>	<i>Grade points per quarter hour</i>	<i>Progress points per quarter hour</i>
A	Excellent	4.0	4.0
A —		3.7	3.7
B +		3.3	3.3
B	Good	3.0	3.0
B —		2.7	2.7
C +		2.3	2.3
C	Satisfactory	2.0	2.0
C —		1.7	1.7
D +		1.3	1.3
D	Passing	1.0	1.0
D —		.7	.7
F		.0	.0
CR	Credit (A, B, C)		2.0
NC	No Credit (D, F)		.0

All courses, except those specifically designated otherwise, will be graded on the A through F basis.

The following administrative grades carry no grade points or progress points and are, therefore, not used to determine a student's grade-point average or progress toward a degree. However, it should be pointed out that the Incomplete will be counted as an F if not removed within one calendar year from the date it was assigned.

AU	Audit
I	Incomplete Authorized
RD	Report Delayed
SP	Satisfactory Progress
U	Unauthorized Incomplete
W	Withdrawal

Grade-point averages are computed by dividing the number of grade points earned by the number of units attempted. Only units and grade points earned by a student while enrolled at this College are used to compute the resident grade-point average.

Expanded Grade Symbol Definitions

CR (Credit): A satisfactory or better level of performance, equivalent to the grade of A, B or C, has been demonstrated in meeting course objective. (For graduate students, equivalent to grade of A or B.)

NC (No Credit): Performance at an unsatisfactory or failing level, equivalent to a grade of D or F. (For graduate students, equivalent to the grade of C, D or F.) Does not award credit for the course.

AU (Audit): Course participation as an auditor. Course credit cannot be awarded.

I (Incomplete): An Incomplete signifies that a portion of required course work has not been completed and evaluated in the prescribed time period due to unforeseen, but fully justified, reasons and that there is still a possibility of earning credit. It is the responsibility of the student to bring pertinent information to the instructor and to reach agreement on the means by which the remaining course requirements will be satisfied. A final grade is assigned when the work agreed upon has been completed and evaluated.

An Incomplete must be made up within one calendar year immediately following the end of the term in which it was assigned. This limitation prevails whether or not the student maintains continuous enrollment. Failure to complete the assigned work will result in an Incomplete being counted as equivalent to an F (or an NC) for grade-point average and progress point computation.

RD (Report Delayed): The RD symbol is used in those cases where a delay in the reporting of a grade is due to circumstances beyond the control of the student. The symbol is assigned by the Registrar and is replaced by a more appropriate grading symbol as soon as possible. An RD is not included in calculations of grade-point average or in determination of progress points.

SP (Satisfactory Progress): The SP symbol is used in connection with courses which extend beyond one academic term. The symbol indicates that work in progress has been evaluated as satisfactory to date but that the assignment of a precise grade must await the completion of additional course work. Cumula-

tive enrollment in units attempted may not exceed the total number applicable to the student's educational objective. All undergraduate work is to be completed within one calendar year of the date of first enrollment and a final grade will be assigned to all segments of the course on the basis of overall quality. The time limitation for graduate degree theses may be up to two years but may not exceed the overall time limit for completion of all master's degree requirements. Extension of any time period requires prior authorization by the Dean of Academic Planning.

U (Unauthorized Incomplete): The symbol U indicates that an enrolled student did not withdraw from the course but failed to complete course requirements. It is used when, in the opinion of the instructor, completed assignments or course activities or both were insufficient to make normal evaluation of academic performance possible. For purposes of grade-point average and progress-point computation this symbol is equivalent to an F.

W (Withdrawal): This symbol indicates that the student dropped the course. It carries no connotation of quality of performance and is not used in calculating grade-point average or progress points.

Policy on Credit/No Credit Grading

All courses, except those specifically designated to be taken Credit/No Credit, are graded on the A through F basis. Certain activity courses, independent study projects, and other courses serving special needs are not readily evaluated in the traditional A through F manner. The nontraditional Credit/No Credit grading allows faculty to award credit for satisfactory performance in an activity, rather than to try to assign a letter grade when such performance cannot be evaluated traditionally.

Courses graded Credit/No Credit, whether taken at this or at another institution, may not be used to satisfy requirements for the major, except specific courses designated by the department to be graded Credit/No Credit.

Students who, because of a change of major or because of transfer from another institution or for any other reason, present courses in the major field which have been graded on a Credit/No Credit basis may, at the discretion of the department or other appropriate academic unit, be required to pass competency examinations at an acceptable level or to take prescribed alternate courses before being allowed to continue in the major.

A student may offer no more than 36 quarter units of work graded Credit/No Credit in satisfaction of the total units required in the student's baccalaureate degree program at the California State College, San Bernardino. This number includes any combination of units graded Credit/No Credit earned at the California State College, San Bernardino and any other institution or institutions.

Course grades of credit received under a credit-by-examination program are exempt from the 36-unit limitation.

Scholarship Standards for Postbaccalaureate and Graduate Students

Scholarship standards for unclassified and classified postbaccalaureate students are the same as for undergraduate students.

For scholarship standards for conditionally classified and classified graduate students, see the Graduate Bulletin.

Scholarship Standards for Undergraduates

For purposes of determining a student's eligibility to remain at the College, both quality of performance and progress toward his objective shall be considered. Such eligibility shall be determined by use of grade points, grade-point average and progress points. The progress point scale shall be based on the grade-point computation for letter grades consistent with the definitions established in Section 40104 of the California Administrative Code and augmented by the assignment of two points per unit for the CR grade and no points per unit for the NC grade.

- (a) An undergraduate student shall be subject to probation if, in any academic term, he either fails to earn twice as many progress points as all units attempted or he fails to maintain either a cumulative grade-point average or a grade-point average at the California State College, San Bernardino of at least 2.0 (grade of C on a five-point scale).
- (b) An undergraduate student shall be subject to disqualification if while on probation he fails to earn twice as many progress points as all units attempted, or if his grade-point balance either cumulative or at the California State College, San Bernardino displays a deficiency in excess of the number permitted for his class level pursuant to deficiency levels established by the chancellor.

These levels are as follows:

1. Lower-division student (fewer than 90 quarter units of college credit), 22.5 grade points below a 2.0 average in all units attempted or in all units attempted at California State College, San Bernardino;
 2. Junior (90 to 134.9 quarter units of college work), 13.5 grade points below a 2.0 average in all units attempted or in all units attempted at California State College, San Bernardino;
 3. Senior (135 or more quarter units of college work), 9 or more grade points below a 2.0 average in all units attempted or in all units attempted at California State College, San Bernardino;
- (c) An undergraduate student who is not on probation may be disqualified if at any time his cumulative grade-point average falls below 1.0 (grade of D on a five-point scale) and, in the opinion of the appropriate campus authority, it is unlikely in light of the student's overall educational record that the resultant grade-point deficiency will be removed in subsequent terms.

A student disqualified for scholarship deficiency may not enroll in any regular session of this College without permission from the Admissions and Academic Standards Committee, and may be denied admission to other educational programs operated or sponsored by the College.

Administrative Academic Disqualification

An undergraduate or graduate student may also be placed on probation or may be disqualified by appropriate campus authorities for unsatisfactory scho-

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lastic progress regardless of cumulative grade-point average or progress points. Such actions shall be limited to those arising from repeated withdrawal, failure to progress toward an educational objective and noncompliance with an academic requirement and shall be consistent with guidelines issued by the chancellor.

Repeat of Courses: Undergraduates

An undergraduate student must petition for permission to repeat a course for the purpose of discounting a previous attempt in the same course. If the petition is approved, the grade earned in the last enrollment is used exclusively in determining the units attempted and grade points earned for the course. Students are invited to inquire at the Office of Admissions and Records for current procedures governing this policy. If a student repeats a course without obtaining formal permission, then both grades will be used in the computation of GPA.

Repeat of Courses: Postbaccalaureate

Classified graduate students and postbaccalaureate students may be permitted to repeat a course under certain provisions. Requirements for seeking permission to repeat courses and utilization of credits earned are explained in detail in the Graduate Bulletin.

Plagiarism

Plagiarism is the presentation as one's own the ideas and writings of another. Plagiarism is academically dishonest and subjects the offending student to penalties up to and including expulsion. Students must make appropriate acknowledgements of the original source where material written or compiled by another is used.

Election of Graduation Requirements

A student remaining in continuous attendance in regular sessions and continuing in the same curriculum in this College, in any of the California community colleges, or in any combination of California community colleges and campuses of the California State University and Colleges, may, for purposes of meeting graduation requirements, elect to meet the graduation requirements in effect at this College either at the time of entering the curriculum or at the time of graduation from this College, except that substitutions for discontinued courses may be authorized or required by the proper college authorities.

Postbaccalaureate Credit for Senior Students

Senior students who need fewer than 15 quarter units to graduate may be permitted to enroll for postbaccalaureate credit during the final term of their senior year. Postbaccalaureate credit is used to signify courses taken after the baccalaureate degree and does not necessarily mean graduate credit, i.e., credit applicable to an advanced degree. A petition form for this purpose is available in the Office of Admissions and Records.

Summer Enrollment at Other Institutions

In instances where there might be a question about the acceptability of course work taken at another institution in the summer, students are advised to consult the department offering the equivalent course at this College.

Information for Issuance of Transcripts

Transcripts are issued at a cost of \$1 per copy, payable in advance.

All transcripts will be complete as of the date of issuance showing all work attempted at the California State College, San Bernardino.

Transcripts which include final grades for that quarter will be sent three weeks after the last day of the quarter.

Only work taken at the California State College, San Bernardino will show on the transcript. Copies of transcripts from other institutions are not included.

Access to Records

All student records, including recommendations, are kept by the College in accordance with the Family Educational Rights and Privacy Act of 1974, which allows students access to their records. Inquiries and concerns about this federal regulation should be directed to the office of the Dean of Students for further information.

Information for Veterans

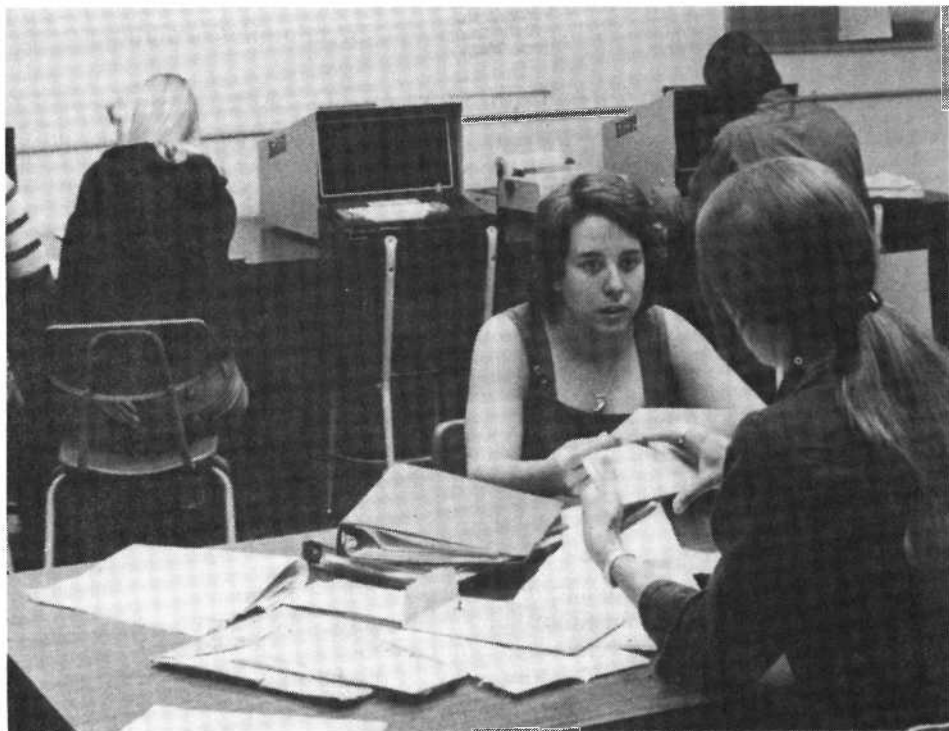
Students who plan to attend the College under the Veterans Readjustment Act of 1972 must present to the Registrar a valid certificate of eligibility in duplicate authorizing training at the California State College, San Bernardino.

The College will certify the following course loads to the Veterans Administration:

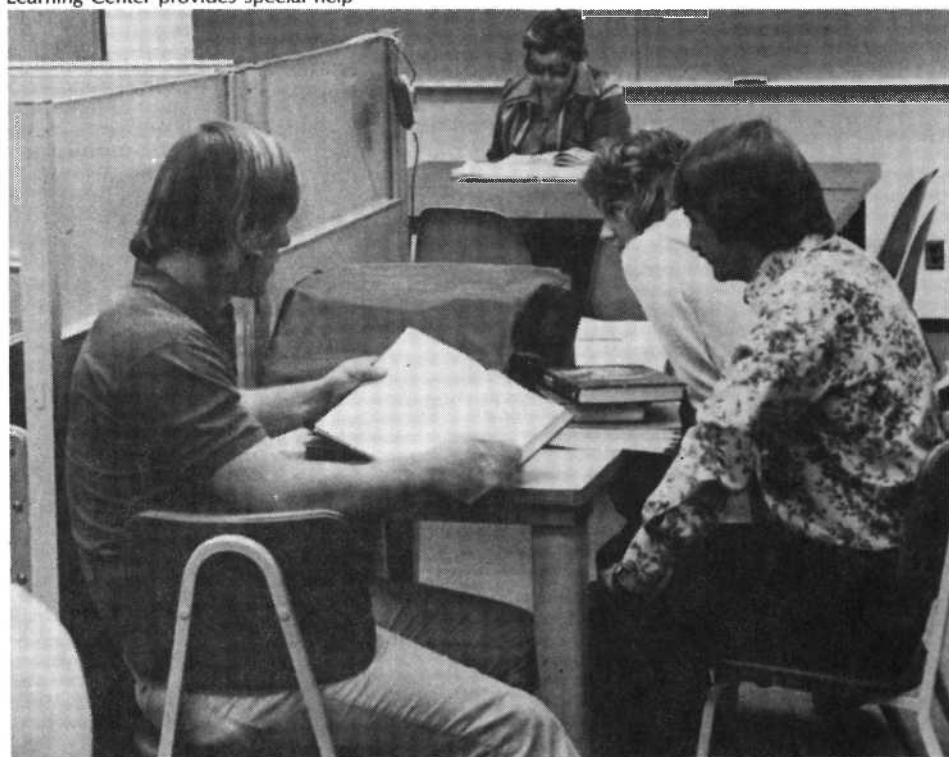
<i>Undergraduates</i>		<i>Graduates</i>	
Full time	12 quarter units*	Full time	12 weighted units*, determined as follows:
¾ time	9–11.5 quarter units*	500 and 600-level course weighted at 1.5 units	
½ time	6–8.5 quarter units*	300 and 400-level course weighted at 1.0 units	
Less than half time	See Registrar	100–200 no certification unless course is stated condition for admission to a graduate program	
		¾ time	9.0 to 11.5 weighted units* as determined above
		½ time	6.0 to 8.5 weighted units* as determined above
		Less than half time	See Registrar

* All units must be degree or objective applicable.

Independent study and self-paced courses will be certified only when the student is concurrently enrolled in residence and independent study courses. The independent study and self-paced courses will be reported at full unit value, unless they constitute more than one-half the academic load. In these cases, the maximum unit value allowed would be five units.



Learning Center provides special help



UNDERGRADUATE DEGREE REQUIREMENTS

To be eligible for the bachelor's degree, a student must:

1. Complete a minimum of 186 quarter units of college credit.
2. Complete 14 full-term designated courses (70 quarter units) in general education distributed in the following manner:

A. Basic studies: three courses

English 101 and two courses from the following:

Mathematics 100, 110, 120, 200, Drama 120, Philosophy 105. (Interdisciplinary Studies 100A and B may be taken as an alternative to English 101 and Philosophy 105.)

B. Humanities: three courses

One course in the arts:

- a. Art (Art 200)
- b. Drama (Drama 250)
- c. Music (Music 180)

Two courses in letters:

- a. Foreign studies (French, German or Spanish 101-102-103**;
Spanish 450; Foreign Languages 450)
- b. Literature (English 110, 111, 170)
- c. Philosophy (Philosophy 190)

C. Natural sciences: two courses

One course from the life sciences:

- a. Biology (Biology 100, 202)
- b. Health science (Health Science 120)

One course from the physical sciences:

- a. Astronomy (Natural Sciences 100)
- b. Chemistry (Chemistry 100, 205, 215)
- c. Earth science (Earth Science 101)
- d. Physical geography (Geography 103)
- e. Physics (Physics 100; 111; 211)

D. Social sciences: three courses

(Social Sciences 140, 142, 144, 146, 150, 155, 160, 165)

** Credit toward the general education requirement will be awarded only upon completion of two introductory courses in one foreign language.

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E. Lower-division general education elective: one course

To be chosen from the designated courses in one of the four major categories (A, B, C, D) above.

A wide range of courses may be readily transferred from community colleges to satisfy each of the lower-division general education requirements (categories A through E, above).

F. Upper-division general education requirement: two courses

To be chosen from among the designated upper-division general education lecture courses in two of three areas: Humanities (319, 330, 350, 353); Natural Sciences (300, 310, 350, 351); Social Sciences (300, 304, 312, 315, 321). An alternate way to satisfy this requirement is to complete one of the Interdisciplinary Studies comprehensive examination sequences: IS 386A and B, IS 387A and B, or IS 388.

3. Complete all requirements for a major, including at least 20 quarter units of upper-division course work in the major.
4. Complete at least 45 quarter units at this College.
5. Complete at least 60 quarter units of upper-division work.
6. Earn a grade-point average of 2.0 (C) or better in all units in the major.
7. Earn a grade-point average of 2.0 (C) or better in all units attempted, and in all units attempted at the College.
8. Complete six quarter units of physical education activity courses, or the equivalent. Students over 25 years old may substitute six units of their choice.
9. Complete English 101.
10. Complete history, constitution and government requirement.
11. Be recommended for graduation by the faculty of the College.

Graduation Requirement Check

Seniors and postbaccalaureate students must request a graduation requirement check at the Office of Admissions and Records prior to completing their academic work at the College. Seniors should not request the check until they have accumulated 150 quarter units, which may include work in progress. Graduate students file after being advanced to candidacy. All students must file by the deadlines established for each quarter and published in the Academic Calendar in the Bulletin and in the class schedule.

In addition to certifying that requirements for graduation are met, the process also entitles undergraduate students within 30 units of graduation to first-day priorities for registration. The deadline for filing in order to secure this priority is earlier than the stipulated dates for filing to determine remaining requirements for graduation. Both dates are listed in the class schedule.

Students who do not complete the requirements in the term for which the requirement check was filed are responsible for filing a new form with the revised date.

Writing Skills Requirement

On May 26, 1976, the Board of Trustees approved a resolution requiring a demonstration of writing skills competency as a requirement for graduation. Students are advised to obtain further information from the Office of Academic Planning on currently available methods for meeting this requirement.

History, Constitution, Government Requirement

California law prescribes, as a requirement for graduation, that each student demonstrate competence in understanding the Constitution of the United States; American history, institutions and ideals; and the principles of state and local government as established in California.

The requirement in United States history, constitution and American ideals may be met by completing one of the following: History 200, 351 or 540, Political Science 202 or Social Sciences 146. The requirement in California state and local government may be met by completing one of the following: History 370, Political Science 202, 330 or Social Sciences 150. Selected courses offered by the School of Social and Behavioral Sciences also may satisfy the requirements. The opportunity to meet the California state and local government requirement by passing an optional examination is given to students who transfer from outside the state. Information may be obtained from either the Office of Admissions and Records or the School of Social and Behavioral Sciences office. The examinations are administered through the Counseling and Testing Office.

Second Bachelor's Degree Requirements

A student who holds a bachelor's degree from the California State College, San Bernardino or another accredited institution and who applies for a second degree must have satisfactorily completed each of the following in order to receive a second bachelor's degree:

1. General education requirements as stated in the appropriate catalog;
2. Requirements of the major involved;
3. A minimum of 36 quarter units of residence work at this College after completion of the first bachelor's degree; and
4. Approval of the faculty of the College.

This policy does not negate the possibility of a student's graduating with a dual major.

College Residence Requirement for Graduation

A minimum of 45 quarter units must be completed at this College. At least 20 quarter units must be completed among the last 30 quarter units counted toward the degree.

Extension credit or credit by examination may not be used to fulfill the minimum residence requirement.

College Honors

College Honors at Commencement. To be considered for College Honors at

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commencement, a student must have completed a minimum of 45 units of work at the California State College, San Bernardino in courses for which letter grades (A, B, C and D) were received.

Highest Honors: an overall undergraduate GPA of 3.9 or above and a GPA of 3.9 or above in all work attempted at this College.

High Honors: an overall undergraduate GPA of 3.75 or above and a GPA of 3.75 or above in all work attempted at this College.

Honors: an overall undergraduate GPA of 3.5 or above and a GPA of 3.5 or above in all work attempted at this College.

Dean's List. An undergraduate student completing 15 or more units for which letter grades (A, B, C and D) were received, and who earns a 3.5 or above in any regular academic term will be placed on a Dean's List.

1. Dean's Letter of Recognition. Any full-time undergraduate student, meeting the above requirements, who earns a 4.0 in any regular academic term will receive a letter of special recognition from the appropriate dean.
2. Presidential Letter of Recognition. Any full-time undergraduate student, meeting the above requirements, who earns a 4.0 in three consecutive regular academic terms will receive a letter of special recognition from the President of the College.

Departmental Honors. Individual departments may grant departmental honors, recognizing distinguished students majoring in that field. The requirements to be met to earn honors are specified by the respective departments. Departmental honors are currently awarded in biology, chemistry, economics, health science, mathematics, nursing, philosophy, political science, psychology and sociology.

Preparation for Professional Schools

The plan of undergraduate study at the California State College, San Bernardino emphasizes a liberal education in preparing for professional or vocational specialization.

Some professions, such as law, stress that candidates for admission to professional schools can best prepare themselves during college by acquiring several fundamental skills. Others, for example, medicine and dentistry, emphasize certain subject matters. A student preparing for either kind of emphasis (skills or specific subjects) has opportunities to do so by selecting, in consultation with an appropriate preprofessional advisor, the kind of curriculum that most soundly meets the standards set by the profession he or she wishes to enter.

Preprofessional Program: Medicine, Veterinary Medicine, Dentistry, Pharmacy

The majority of students entering medical and dental schools in the United States do so after having acquired a B.A. or B.S. degree at an undergraduate college. Possession of an undergraduate degree is especially worthwhile, since professional schools do not offer liberal arts subjects.

Any undergraduate major is appropriate for a preprofessional student as long as certain basic subject areas are included in the program. For specific require-

ments of professional schools the student is urged to consult such special sources as "Medical School Admission Requirements," (a publication of the Association of American Medical Colleges) or a preprofessional advisor in the School of Natural Sciences.

In general, medical and dental schools recommend that the undergraduate degree program include: one year of general chemistry, one year of organic chemistry, one year of general biology, with additional course work in developmental biology and/or comparative anatomy and genetics, and one year of physics. Other courses, e.g., mathematics through calculus and physical chemistry, are often recommended as well.

Since preprofessional programs in dentistry and medicine place heavy emphasis in biology and chemistry, these are the two majors most often elected by preprofessional students. A preprofessional student majoring in biology should complete the biology core program, supported by courses in chemistry and physics, and should elect Mathematics 200 and Biology 342. A preprofessional student majoring in chemistry should complete the chemistry core program, supported by courses in mathematics and physics, and should elect Biology 342, 423 and 440.

The science and mathematics components of preprofessional programs in veterinary medicine are quite similar to those for medicine.

Admission to a school of pharmacy can also be gained after two years of undergraduate work. Although entrance requirements vary somewhat, they generally include full-year introductory courses in biology, chemistry, mathematics and physics. A course in organic chemistry is sometimes required as well.

Preprofessional Program: Law

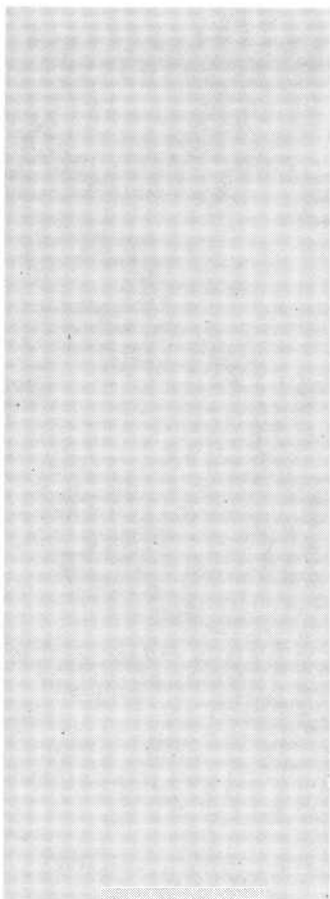
Applicants for admission to most law schools are expected to have a B.A. or B.S. degree and to have taken the Law School Admission Test. There is no single "prelaw" major required, or in most instances recommended, since the successful study of law is more often related to the ability to grasp and solve difficult intellectual problems and to employ disciplined work habits, than it is to any narrow, specialized field of study.

Several broad objectives of prelegal education are set forth by the Association of American Law Schools. These include the oral and written command of language; an understanding and appreciation of social, political and economic values, institutions, problems and frames of reference; and an ability for creative, innovative, critical and analytical thinking.

For these reasons, every prelaw student should carefully choose, with the aid of appropriate advisors, courses which sharpen the skills and sensitivities previously listed. Since no one major is mandatory, the student should select one which emphasizes the areas mentioned above (administration, economics, English, history, philosophy, political science and sociology to name a few). For additional information, the student should consult with the prelaw advisor and should be familiar with the Prelaw Handbook.

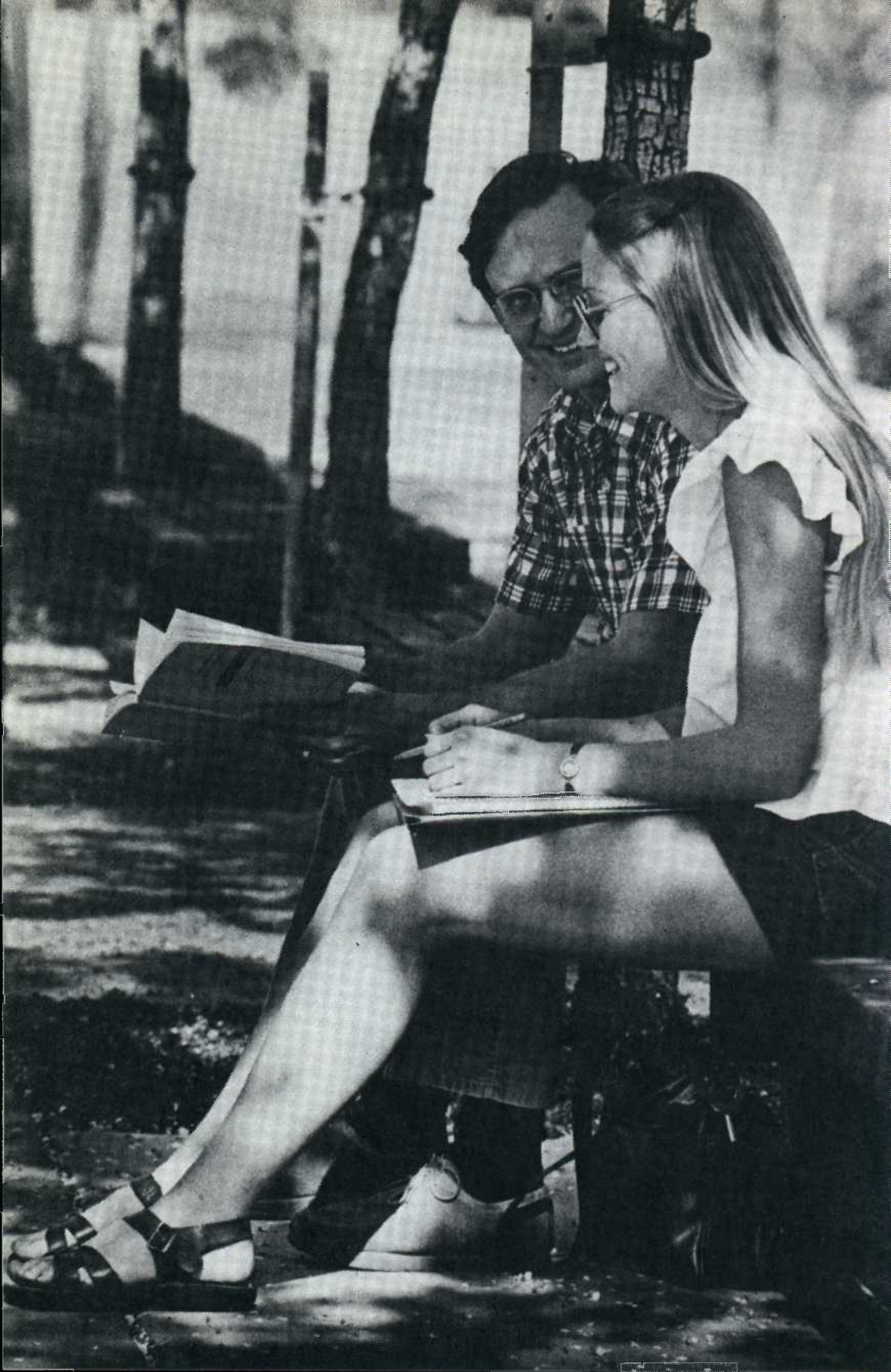
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For additional information, a student should see the bulletins or catalogs of various law schools or the official Prelaw Handbook, current edition, prepared by the Law School Admission Test Council and the Association of American Law Schools. This handbook may be obtained at most college bookstores or ordered from Educational Testing Services, Princeton, N.J. 08540.



Drama productions range from Shakespeare to contemporary





GRADUATE PROGRAMS

California State College, San Bernardino currently offers graduate programs culminating in master's degrees in business administration, public administration, biology, education, psychology and special major.

Graduate programs at the College are designed to serve a variety of needs. Some students pursue an advanced degree or a credential program in a professional area to enhance their career mobility; others, to expand their knowledge and understanding in a chosen discipline. The College provides for the part-time, as well as the full-time, student by offering appropriate course work and research opportunities during the day, late afternoon and evening throughout the regular quarters and the summer sessions.

The School of Administration offers a Master of Business Administration (M.B.A.) and a Master of Public Administration (M.P.A.). The M.S. in Biology provides further study in various biological concentrations. The unique environmental setting of the campus allows for special emphasis on desert and mountain ecological studies.

The M.A. in Education offers options in elementary and secondary education, English and history (for secondary teachers), school counseling, reading and school administration. The Department of Psychology offers an M.S., with a concentration in counseling, in addition to an M.A. degree.

An M.A. with a Special Major allows a student with unusual educational or vocational objectives to draw from several departments to meet a specific need. Information on this program is available from the Associate Dean of Graduate Studies.

Through its Office of Continuing Education, the College offers an external Master of Arts degree in education. This off-campus M.A., taught in the Coachella Valley, focuses on elementary education or counseling options.

Additional graduate programs are anticipated in the future.

Admission to the College

A student who has successfully completed a four-year college course and holds a baccalaureate degree from an accredited institution may be eligible for admission to the College with postbaccalaureate or graduate standing. He must satisfactorily meet the professional, personal, scholastic and other standards for graduate study. In addition, a student admitted with classified graduate status must show promise of success and fitness.

In seeking admission to the College, each applicant must submit to the Office of Admissions and Records an application for admission, a statement of residence form, a \$20 application fee and two official transcripts from each college or university attended.

Applicants for postbaccalaureate programs are limited to the choice of a single

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campus within the California State University and Colleges system on each application form. If an applicant wishes to be considered by more than one campus, he must submit a separate application and fee to each.

An applicant accepted for postbaccalaureate study at the College must be admitted in one of the following categories:

Unclassified Postbaccalaureate Standing. For admission to unclassified postbaccalaureate standing, a student must: (a) hold an acceptable baccalaureate degree from an accredited institution or have completed equivalent academic preparation as determined by the Associate Dean of Graduate Studies; (b) have attained a grade point of at least 2.5 (on a five-point scale where A equals 4.0) in the last 60 semester (90 quarter) units attempted; and (c) have been in good standing at the last college attended. Admission to this College with unclassified postbaccalaureate standing does not constitute admission to graduate degree curricula.

An applicant who does not qualify for admission under the provisions cited above may be admitted by special action if on the basis of acceptable evidence he is judged to possess sufficient academic, professional and other potential to merit such action. Petitions for admission by special action should be directed to the Office of Academic Planning.

Classified Postbaccalaureate Standing. A student who is eligible for admission to this College in unclassified standing may be admitted to classified postbaccalaureate standing for the purpose of enrolling in a particular postbaccalaureate credential or certificate program; provided that professional, personal, scholastic and other standards, including qualifying examinations, prescribed for the particular program by the College are satisfied.

Conditionally Classified Graduate Standing. A student who is eligible for admission to this College under the unclassified postbaccalaureate standing above, but who has deficiencies in prerequisite preparation which can be met by specified additional preparation, including qualifying examinations, may be admitted to an authorized graduate degree program with conditionally classified graduate standing.

Classified Graduate Standing. A student who is eligible for admission to this College in unclassified or conditionally classified standing may be admitted to a graduate degree program as a classified graduate student if he satisfactorily meets the professional, personal, scholastic or other standards, including qualifying examinations, prescribed for the particular program.

No more than 20 units of credit earned in unclassified or conditionally classified standing may be used to demonstrate fitness to complete the program or may be counted toward meeting requirements for a graduate degree. Such units will be accepted only upon approval of the graduate advisor assigned to the student.

Only students who continue to demonstrate a satisfactory level of scholastic competence and fitness, as determined by appropriate College authorities, shall be eligible to continue in a graduate program. Students whose performance is judged to be unsatisfactory may be required to withdraw from all graduate degree programs offered by the College.

Teaching Credential. A student desiring to work toward a teaching credential

at the College must first meet the general qualifications. After admission to the College, he must meet the particular requirements for participation and formal acceptance into the credential program as specified by the appropriate instructional area. A credential candidate must have maintained a minimum 2.5 grade-point average in undergraduate course work in his major field.

Admission to the M.B.A. Program in Business Administration

To be admitted as a classified graduate student, a student must:

1. Possess a bachelor's degree from an accredited college or university;
2. Have one of the following combinations of grade-point average (GPA) and test score on the GMAT (Graduate Management Admission Test):
 - a. At least a 2.75 GPA on the last 50 percent of course work taken for the bachelor's degree plus a minimum GMAT score of 470 *or* a combination of GPA and GMAT score according to the formula: 200 times GPA on the last 50 percent of course work for the bachelor's degree plus GMAT score equals or exceeds 1020, *or*
 - b. At least a 3.0 GPA on the last 90 sequential quarter units (60 semester units) of course work (including postbaccalaureate course work) plus a minimum GMAT score of 470 *or* a combination of GPA and GMAT score according to the formula: 200 times GPA on the last sequential 90 quarter units of course work plus GMAT score equals or exceeds 1070.
3. Submit GMAT score by the deadline for that term; if test result is not submitted on time admission status will be unclassified postbaccalaureate;
4. Demonstrate competence in the following courses or their equivalents: Economics 100 and 102, or Economics 305; Mathematics 101 or 110; Administration 210 or Mathematics 150; Administration 220, 301, 302, 303, 304, 305, 306 and 330. Competence in the above prerequisite courses may be demonstrated by:
 - a. Formal completion of the course or its equivalent,
 - b. Credit by examination,
 - c. Waiver based on appropriate work experience. (Students requesting waiver of any prerequisite course must petition the graduate committee of the School of Administration.)
5. Demonstrate academic motivation and personal qualifications through submission of a 200-250 word statement of reasons for wishing to pursue the M.B.A. at California State College, San Bernardino and personal qualifications that will contribute to successful completion of the program.

Students who meet all entrance requirements except course prerequisites may be admitted to the program in a conditionally classified status until those prerequisite deficiencies are removed, at which time they will be advanced to classified graduate standing in the program.

Applicants who apply after the deadline for a particular term and meet all requirements for classified graduate standing may be admitted to conditionally classified standing on a space available basis. They will automatically be considered for classified graduate standing for the next regular academic term. Students in this category should contact the graduate program coordinator of the School of Administration for further information.

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No more than 20 quarter units of course work taken as an unclassified or conditionally classified graduate student may be applied to the program as a classified graduate student. There is no restriction on the number of quarter units of undergraduate work that may be taken prior to advancement to classified status.

Admission to the M.P.A. Program in Public Administration

To be admitted as a classified graduate student, a student must:

1. Possess a bachelor's degree from an accredited college or university;
2. Have one of the following combinations of grade-point average (GPA) and test score on the GRE (Graduate Record Examination):
 - a. At least a 2.75 GPA on the last 50 percent of course work taken for the bachelor's degree plus a minimum GRE score of 1000 *or* a combination of GPA and GRE score according to the formula: 400 times GPA on the last 50 percent of course work for the bachelor's degree plus GRE score equals or exceeds 2100, *or*
 - b. At least a 3.0 GPA on the last 90 sequential quarter units (60 semester units) of course work (including postbaccalaureate course work) plus a minimum GRE score of 1000 *or* a combination of GPA and GRE score according to the formula: 400 times GPA on the last sequential 90 quarter units of course work plus GRE score equals or exceeds 2200.
3. Submit GRE score by the deadline for that term; if test result is not submitted on time admission status will be unclassified postbaccalaureate;
4. Demonstrate competence in the following courses or their equivalents: Economics 100 and 102, or Economics 305; Mathematics 101 or 110; Political Science 428; Administration 210 or Mathematics 150; Administration 220, 301, 302, 306, 475 (or Economics 475) and Administration 575. Competence in the above prerequisite courses may be demonstrated by:
 - a. Formal completion of the course or its equivalent,
 - b. Credit by examination,
 - c. Waiver based on appropriate work experience. (Students requesting waiver of any prerequisite course must petition the graduate committee of the School of Administration.)
5. Demonstrate academic motivation and personal qualifications that will contribute to successful completion of the program through submission of a 200–250 word statement of reasons for wishing to pursue the M.P.A. at California State College, San Bernardino.

Students who meet all entrance requirements except course prerequisites may be admitted to the program in a conditionally classified status until those prerequisite deficiencies are removed, at which time they will be advanced to classified graduate standing in the program.

Applicants who apply after the deadline for a particular term and meet all requirements for classified graduate standing may be admitted to conditionally classified standing on a space available basis. They will automatically be considered for classified graduate standing for the next regular academic term. Students in this category should contact the graduate program coordinator of the School of Administration for further information.

No more than 20 quarter units of course work taken as an unclassified or conditionally classified graduate student may be applied to the program as a classified graduate student. There is no restriction on the number of quarter units of undergraduate work that may be taken prior to advancement to classified status.

Admission to M.S. Program in Biology

In order to be admitted as a classified student in the biology program a student must have:

1. A baccalaureate degree from an accredited college;
2. An undergraduate major in biology or associated fields (for example, microbiology, botany, zoology and chemistry);
3. Adequate preparation in chemistry at the college level, including courses in organic chemistry; quantitative analysis is recommended.
4. Two full-term courses in physics at the college level;
5. A minimum of one full-term course in mathematics at the college level.

Students who do not meet these criteria may be admitted as conditionally classified graduate students and will remain in this status until deficiencies have been removed.

Admission to M.A. Program in Education

In order to be admitted as a classified student in any of the options within the M.A. in education, a student must possess:

1. A baccalaureate degree from an accredited college;
2. A grade-point average of at least 2.5 (on a five-point scale) in the last 60 semester units (90 quarter units) attempted.

In addition, the following are required for admission as a classified student in a specific program.

In the elementary education option:

1. A valid teaching credential or teaching experience;
2. A cumulative grade-point average of 3.0 (B) in all courses taken in education.

In the secondary education option:

1. A valid teaching credential or teaching experience;
2. A cumulative grade-point average of 3.0 (B) in all courses taken in education;
3. Completion of Education 601 with a grade of B or better.

In the English and history options for secondary teachers:

1. A valid teaching credential or teaching experience;
2. A cumulative grade-point average of 3.0 (B) in all courses taken in education;
3. An undergraduate major in English or history.

In the counseling option:

1. Three letters of recommendation from persons having knowledge of the applicant's potential for this program;

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2. Completion of Education 531 with a grade of B or better;
3. Interviews with two or more members of the counselor education faculty;
4. Application form and self-disclosure statement.

In the school administration option:

1. A cumulative grade-point average of 3.0 (B) in all courses taken in education;
2. Satisfactory completion of Education 670.

Normally, a student is expected to be working concurrently for a credential in school administration.

In the reading option:

1. A valid teaching credential or teaching experience;
2. A cumulative grade-point average of 3.0 (B) in all courses taken in education.

Students who do not meet these criteria may be admitted as conditionally classified graduate students. Students admitted in this category may be changed to classified standing with approval of the School of Education (and the Departments of English or History, for secondary teachers selecting options in one of these fields).

Admission to M.A. Program in Psychology

In order to be admitted as a classified student in the M.A. program, a student must:

1. Possess a baccalaureate degree with a major in psychology; or with any other undergraduate major, (a) score at least at the 50th percentile on the GRE advanced test in psychology or (b) satisfy the Graduate Admissions Committee of the Department of Psychology that a satisfactory course of study has been pursued in preparation for graduate study in psychology;
2. Have a cumulative undergraduate grade-point average of at least 2.5 overall and at least 3.0 in the major;
3. Submit to the department a brief statement describing preparation for graduate study, goals of the graduate program and professional aspirations;
4. Provide for three letters of recommendation, at least two from former professors. Letters should come directly from the writers or be included in a placement file.

Students who meet the general requirements of the College for admission to graduate study but who do not meet the Psychology Department's specific requirements for admission to classified status or who wish to take course work prior to spring quarter consideration of their application for classified status, may be admitted to the College in the unclassified postbaccalaureate status. Unclassified postbaccalaureate students may enroll, when space is available, in selected graduate courses.

Admission to M.S. Program in Psychology

In order to be admitted as a classified student in the M.S. program, a student must:

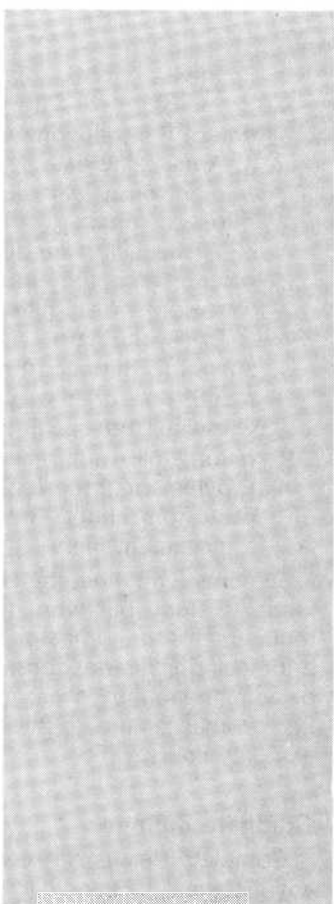
1. Have a cumulative undergraduate grade-point average of at least 2.5 overall and at least 3.0 in the major;

2. Possess a baccalaureate degree with a major in psychology;
or
one of the following two:
 - a. A baccalaureate degree in a major other than psychology and achievement of at least at the 50th percentile on the GRE advanced test in psychology;
 - b. A baccalaureate degree in a major other than psychology, including a course of study judged, by the Psychology Department Graduate Admissions Committee, to be satisfactory preparation for graduate study in psychology.
3. Submit to the department Graduate Admissions Committee a brief statement (one or two typewritten pages) of the student's preparation for graduate study, goals in a graduate training program and professional aspirations following receipt of the master's degree;
4. Provide for three letters of recommendation, at least two from former professors. Letters should come directly from the writers or be included in a placement file.

Students who meet the general requirements of the College for admission to graduate study but who do not meet the Psychology Department's specific requirements for admission to classified status or who wish to take course work prior to spring quarter consideration of their application for classified status, may be admitted to the College in the unclassified postbaccalaureate status. Unclassified postbaccalaureate students may enroll, when space is available, in selected graduate courses.

Graduate Bulletin

Complete details on requirements for admission to the existing programs, advancement to candidacy and requirements for graduation are listed in the Graduate Bulletin, a separate publication available without charge from the Office of Academic Planning or any department offering a master's program. General information about graduate work at this College may be secured from the Office of Academic Planning. Specific details about a particular master's degree program are available from the department or school involved.



CERTIFICATE PROGRAMS

The College offers several programs leading to a certificate of competency in a special area.

Certificates may be earned by regularly matriculated or continuing education students and denote successful completion of a prescribed program of study designed to (a) impart specified professional/vocational/career competencies; or (b) produce mastery of the content of a sub-field of an academic major (discipline); or (c) provide exposure to the range of materials in a traditional or emerging interdisciplinary field.

Courses offered for the certificate may be the same ones used to satisfy major, minor, credential or general education requirements. In order to qualify for a certificate, the candidate must receive two-thirds of his certificate-applicable credit from the College. The transferring of credit or the substitution of courses may occur only after application to the appropriate campus authority.

The certificate is awarded upon confirmation by the Office of Admissions and Records that the requirements have been satisfied. The candidate is responsible for initiating the conferring of the certificate, during the last term of certificate-applicable study. Award of the certificate also will be noted on the student's transcript.

Certificate in Accounting

The requirements for a Certificate in Accounting consist of the following:

Administration 306. Concepts of Accounting

*Administration 340. Managerial Accounting

*Administration 345. Cost Accounting and Control

*Administration 370. Financial Accounting

Two additional courses to be selected from:

*Administration 343. Studies in Managerial Accounting

*Administration 371. Problem Areas in Financial Accounting

*Administration 426. Federal Taxation Administration

*Administration 430. Financial Policies and Systems

*Administration 438. Auditing

*Administration 445. Accounting Systems Management

*Administration 568. Governmental Financial Management and Accounting

*Administration 569. Theory and Practice of Internal Auditing

*Course has a prerequisite

Certificate in Bilingual/Cross-cultural Studies: Spanish/English

The requirements for a Certificate in Bilingual/Cross-cultural Studies: Spanish/English consist of the following:

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- Spanish 101. Elementary Spanish I
- *Spanish 102. Elementary Spanish II
- *Spanish 103. Intermediate Spanish
or equivalent
- Psychology 347. Psychological Development of the Chicano
- History 391. Chicano History
- Three additional courses to be selected from:
 - Humanities 460. Culture Studies: Mexico
 - History 390. History of Mexico
 - Political Science 351. The Chicano and Politics
 - *Sociology 342. The Chicano Family
 - *Spanish 440. Mexican Literature
 - Foreign Languages 450. Mexican Literature in Translation
 - Education 533. Teaching the Culturally Different: The Chicano
 - Art 325. Studies in Mexican and Chicano Art
 - Music 351. Studies in Mexican and Chicano Music

*Course has a prerequisite

Certificate in Classical/Medieval Studies

The requirements for a Certificate in Classical/Medieval Studies consist of six of the following:

- Drama 450/English 450. Classical Drama
- English 401. English Literature of the Middle Ages
- *French 311. Masterpieces of French Literature I
- Foreign Languages 450. Literature in Translation (medieval
subject matter)
- History 320. Ancient History I
- History 321. Ancient History II
- Music 322. Medieval and Renaissance Music
- Political Science 310. Greek, Roman and Medieval Political Thought

*Course has a prerequisite

Certificate in Computers and Programming

The requirements for a Certificate in Computers and Programming consist of the following:

- Computer Science 100. Computers and Society
- Computer Science 135. Introduction to Computers and BASIC
- Computer Science 140. FORTRAN Programming
- *Computer Science 340. Advanced Programming
- *Computer Science 345. COBOL Programming
- *Computer Science 350. Computers and their Applications
- *Computer Science 440. Directed Study in Computers/Programming

One upper-division applied course such as:

- *Mathematics 420. Numerical Methods
- *Administration 420. Computer Management
- *Administration 604. Quantitative Methods in Administration

*Economics 480. Introduction to Mathematical Economics or others, to be selected in consultation with an advisor.

*Course has a prerequisite

Certificate in Financial Management

The requirements for a Certificate in Financial Management consist of the following:

- *Administration 303. Financial Theory
- Administration 306. Concepts of Accounting
- *Administration 430. Financial Policies and Systems
- *Administration 435. Investment Analysis

Plus two electives from the following courses:

- *Administration 340. Managerial Accounting
- *Administration 370. Financial Accounting
- *Administration 371. Problem Areas in Financial Accounting
- *Administration 426. Federal Taxation Administration
- *Administration 431. Real Estate Finance and Investment
- *Administration 475/Economics 475. Public Finance
- *Economics 410. Money and Banking

*Course has a prerequisite

Certificate in Human Resources Management

The requirements for a Certificate in Human Resources Management consist of the following:

- Administration 302. Human Behavior in Organizations
- *Administration 455. Human Resources Management
- *Administration 456/Psychology 456. Psychology of Human Resources
- *Administration 457. Industrial and Labor Relations
- *Administration 458. Employment Policies and Practices

Plus one elective (5 units) selected jointly by the student and an academic advisor from the School of Administration

*Course has a prerequisite

Certificate in International Relations

The requirements for a Certificate in International Relations consist of six of the following, with no more than four from any one discipline:

- Political Science 300. Western Political Systems
- Political Science 304. Communist Political Systems
- Political Science 306. Developing Political Systems
- Political Science 325. American Foreign Policy
- Political Science 400. International Politics
- Political Science 484. International Security and Defense Strategy
- Political Science 500. International Law
- Political Science 510. International Organization
- Political Science 590. Seminar in International Relations

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- Social Sciences 300. Nonwestern World
- *Economics 420. Comparative Economic Systems
- *Economics 430. International Economics
- Economics 450. Economic Development
- Administration 470. Management of International Operations
- History 556. Foreign Relations of the United States
- *Course has a prerequisite

Certificate in Marketing Management

The requirements for a Certificate in Marketing Management consist of the following:

- Administration 305. Marketing Management
- *Administration 410. Consumer Behavior
- *Administration 411. Retailing
- *Administration 412. Advertising
- Plus two electives from the following courses:
- Administration 230. Legal Aspects of Business Transactions
- Administration 306. Concepts of Accounting
- *Administration 413. Procurement
- *Administration 440. Marketing Research
- *Administration 442. Small Business Management
- *Economics 302. Intermediate Microeconomics
- Geography 420. Geography of Economic Activity
- *Course has a prerequisite

Certificate in Paralegal Studies

The requirements for a Certificate in Paralegal Studies consist of the following:

- Paralegal Studies 385. Legal Research and Writing
 - Paralegal Studies 370. Wills, Estates and Trusts
 - Paralegal Studies 371. Contract Law
 - Paralegal Studies 372. Tort Law
 - Paralegal Studies 373. Property Law
 - Paralegal Studies 374. Law of Evidence
 - Paralegal Studies 375. Litigation
 - Paralegal Studies 890. Law Office and the Role of the Paralegal Professional
- Offered through extension only*

Three additional courses to be selected from:

- Political Science 327. Public Law
- Political Science 328. Judicial Process
- Political Science 410. American Constitutional Law
- Political Science 411. The Bill of Rights
- Sociology 359. Law and Society
- *History 540. Constitutional History of the United States
- Philosophy 465. Philosophy of Law
- Administration 330. Legal Environment of Business
- *Course has a prerequisite

Certificate in Women's Studies

The requirements for a Certificate in Women's Studies consist of 30 units chosen from the following courses:

- *Biology 314. Biology of Human Sexuality
- Political Science 340. Sex and Politics
- *Psychology 331. Psychology of Women
- Sociology 345. Sociological Perspectives on Women

and from

a variety of seminar courses such as Women in Administration, Art, Drama, History and Literature

and from

certain 800-level extension course offerings, with no more than 15 units being taken at the 800 level

- *Course has a prerequisite

Certificate in Writing

The requirements for a Certificate in Writing consist of 30 units of the following courses selected in consultation with an English department advisor:

- English 313. Introduction to Creative Writing
- English 370. Theory and Practice of Newspaper Journalism
- *English 371. Topics in Journalism
- English 394. Writing Seminar
- English 396. Advanced Composition
- English 500. Grammar and Linguistics
- English 505. History of the English Language
- English 511. Theory and Practice of Rhetoric and Composition
- *English 513. Advanced Creative Writing
- *Course has a prerequisite



Moon rock, astronaut headline Science Day



CONTINUING EDUCATION

The term Continuing Education denotes a variety of courses, programs, activities and events through which the services and resources of the College are made available to a broad, general audience and are brought to bear on immediate issues and interests of the larger community of which the College is a part.

Responding to diverse educational needs of residents of its two-county service area, the College undertakes to develop opportunities for those seeking personal growth and fulfillment, for those pursuing professional renewal and advancement, for others aspiring to resume an education that has been interrupted or is incomplete, and for still others whose personal experience or community situation dictates an organized effort to understand and affect the conditions of modern urban life.

Extension Study and Credits

Extension offerings include both courses selected from the established curriculum and new courses designed to meet current needs and desires expressed by groups, professions and communities.

The College has a plan which also opens classes offered in the regular program of the College to extension students, answering the needs of those who wish to take a specific course or two, but do not want to matriculate to do so. These registrations are handled in the Office of Continuing Education and are accommodated on an individual, space-available basis. Credits earned are degree-applicable but do not carry residence credit.

A maximum of 36 quarter units of degree-applicable credit earned through extension may be applied to a baccalaureate degree program. A maximum of 13 quarter units of graduate degree-applicable credit earned through extension may be accepted toward a master's degree program.

Credits earned in courses offered only through extension and numbered in the 800-series are not degree-applicable though they may satisfy salary hurdle, credential, re-licensure or similar professional requirements, or serve for personal growth.

Only those credits will be accepted for transfer which are acceptable toward a degree or credential at the institution offering the courses.

Individuals interested in the extension program may be placed upon the mailing list for regular announcements of courses by contacting the Office of Continuing Education.

Summer and Special Sessions

Summer and special sessions afford both regular and non-matriculated students opportunity to pursue undergraduate or graduate study in virtually all of the College's academic majors and in professional programs.

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There is no prior application required nor are there formal procedures for admission to summer or special sessions. Course credits earned in the summer denote residence credit and are accepted toward degree programs on campus when students matriculate in the College.

Announcement of the summer programs is made in early spring each year. The calendar and schedule of classes may be obtained without charge from the Office of Continuing Education.

External Degree Programs

Recent establishment in the California State University and Colleges of procedures for developing, implementing and evaluating external degree programs means that as need and demand warrant, complete upper-division curricula can be offered at sites distant from the College.

The guidelines imply careful articulation with community colleges in planning degree programs in a limited number of major fields. Classes of at least 25 to 35 students are essential since external degree programs are required to be self-supporting from fees, as extension long has been. For approved programs, usual residence requirements are waived enabling students who complete the prescribed sequence of courses to earn the baccalaureate degree wholly through off-campus study.

The College presently offers the following external degree programs: B.A. in Social Sciences in Barstow; and M.A. in Education (elementary education option and counseling option) in the Coachella Valley. Additional programs are currently being developed. Information on new or upcoming programs available in a specific area may be obtained by contacting the Office of Continuing Education.

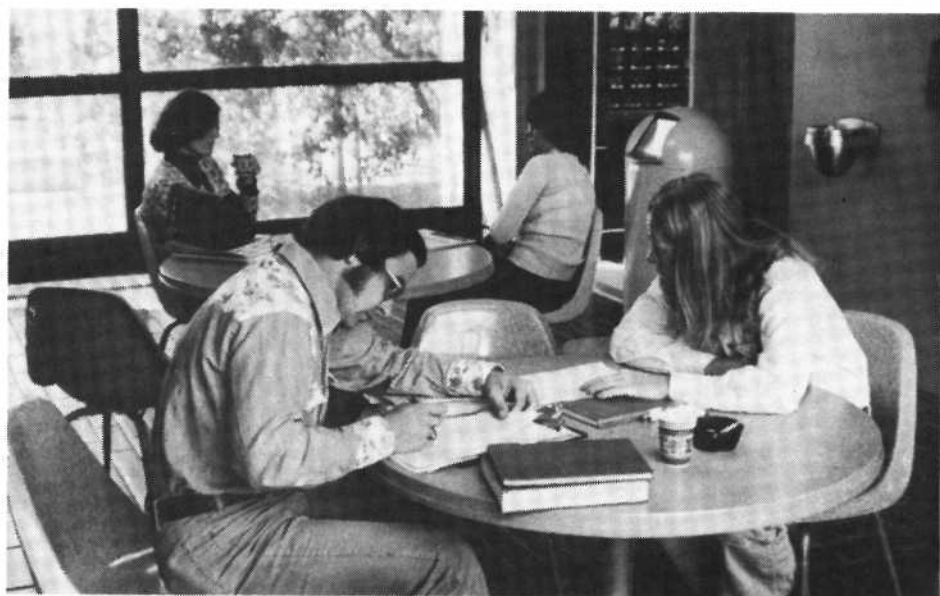
Coordination of the work of implementing a college-wide responsibility to develop external programs appropriate to the service area is a function of the Office of Continuing Education, while delivery of approved programs is to be effected through its established extension routines.

Community Programs

The Office of Continuing Education with its adjunct Management Center provides for continuing liaison among campus and community groups and organizations with common interests and concerns.

It assists community groups and agencies in identifying and utilizing campus resources, particularly the expertise of faculty members. It assists students and faculty in efforts both to give service to and to utilize the community as an instructional resource.

The office also initiates, co-sponsors or coordinates a variety of conferences, workshops and seminars each year on behalf of various professional and special interest groups. Assistance can be given, or full responsibility taken, for developing conference programs as well as for making necessary physical arrangements on or off-campus.





THE CURRICULUM

Schools of the College

The academic program of the College is offered through five schools—Administration, Education, Humanities, Natural Sciences and Social and Behavioral Sciences—and the independent Department of Physical Education and Recreation. The schools are organized into departments, listed below:

Administration

Business Administration
Public Administration

Education

Special Programs
Teacher Education

Humanities

Art
Drama
English
Foreign Languages
Music
Philosophy

Natural Sciences

Biology
Chemistry
Health Science
Mathematics
Nursing
Physics

Social and Behavioral Sciences

Anthropology
Economics
Geography
History
Political Science
Psychology
Sociology

Degree programs are offered by departments, schools and interdisciplinary committees. A complete listing of the degrees available at the College may be found on Pages 20 and 21.

Course Numbering System

1-99	<i>Non-credit courses.</i>
100-299	Lower-division courses designed primarily for freshmen and sophomores. <i>Graduate credit is not allowed.</i>
300-499	Upper-division courses of junior and senior level; graduate credit may be awarded if course is accepted in a specific graduate program.
500-599	Courses for upper-division, postbaccalaureate and graduate students.
600-699	Courses for postbaccalaureate and graduate students only. <i>May not be taken by undergraduates.</i>
X800-X899	Courses offered through extension only. <i>Credit not degree applicable.</i>
IP100-IP699	Courses taken by students in the International Programs.
e300-e699	Credit earned in a continuing education program for residence credit pursuant to an external degree program.

Course Credits

All courses at California State College, San Bernardino carry five quarter units of credit, unless otherwise indicated in the course description in this Bulletin. For purposes of comparison with other colleges, a five quarter-hour course is equivalent to a $3\frac{1}{3}$ semester-hour course.

Major Fields of Study

Work in a major field of study is designed to afford each student the opportunity to engage in intensive study of a discipline.

Not later than the beginning of the junior year, each student shall select one or more specialized areas in which to concentrate. Thereafter this program will be supervised by an advisor from the chosen major department.

Major programs are available in 1977-78 in the fields listed on Pages 20 and 21.

Nondiscrimination on the Basis of Sex

The California State University and Colleges does not discriminate on the basis of sex in the educational programs or activities it conducts. Title IX of the Education Amendments of 1972, as amended, and the administrative regulations adopted thereunder prohibit discrimination on the basis of sex in education programs and activities operated by California State College, San Bernardino. Such programs and activities include admission of students and employment. Inquiries concerning the application of Title IX to programs and activities of California State College, San Bernardino may be referred to Dr. James D. Thomas, dean of academic administration, or Oscar Jackson, personnel officer, the campus officers assigned the administrative responsibility of reviewing such matters or to the regional director of the Office of Civil Rights, Region 9, 760 Market Street, Room 700, San Francisco, California 94102.

Every effort has been made to assure the accuracy of the information in this catalog. Students are advised, however, that such information is subject to change without notice. Therefore, they should consult the appropriate instructional departments, schools, or administrative offices for current information.

The class schedule, issued prior to each quarter, lists courses to be offered during that term.

ADMINISTRATION

The School of Administration offers a major in administration designed to prepare students for careers in business, government service, institutions and related fields.

The administration curriculum reflects the view that the concepts, philosophies and methodologies of modern administrative science, though traditionally studied in the context of business enterprise, have applicability to large-scale organizations generally. This curriculum, with its core requirements and areas of specialization, provides the student with a broad-based behavioral and quantitative understanding of the concepts of management. The managerial function and decision-making processes are studied with coverage in methods of analysis of quantitative information; judgment and appraisal of social, economic and human relations issues; and effective communication.

Areas of commonality among various public and private systems of institutional management constitute the core material of the administration major, while variations which distinguish management practices in different functional areas are subjects for optional specialization.

Requirements for the bachelor of arts degree: Economics 100 and 102; Mathematics 101 or 110; Administration 210 or Mathematics 150 or 350; Administration 220, 301, 302, 303*, 304, 305*, 306, 330 and 490*. In addition, each student must complete one of the six concentrations indicated below plus the indicated number of concentration electives.

** For public administration concentration, students should substitute Administration 475 or Economics 475 for Administration 303; Administration 307 for Administration 305, and Political Science 428 for Administration 490.*

The concentration electives may be chosen from the electives listed for each concentration or, with the prior approval of an advisor and the dean of the School of Administration, the student may substitute other courses for these electives. Up to two of the concentration electives may be chosen from other academic disciplines with prior approval. Students in planning their career goals should review course offerings of other departments to determine if specific courses fit their career plans.

Accounting: Administration 340, 345, 370 and three electives chosen from Administration 343, 371, 426, 428, 430, 438, 445, 568, 569, 575

Finance: Administration 340, 426, 430, 435 and two electives chosen from Administration 370, 420, 431, 442, 475 (or Economics 475), 575, Economics 410

Management: Administration 350, 451, 455 and three additional courses chosen with advisor's approval

Management Science: Administration 360, 400, 420, 421, 465 and one elective chosen from Administration 440, 460, 461, Economics 490

Marketing: Administration 410, 411, 412, 440 and two electives chosen from Administration 413, 470, 575, Geography 420, Economics 302

Public Administration: Administration 380 (or Political Science 380), 480, 562, 563 and 10 units of electives chosen with advisor's approval

Requirements for the bachelor of science degree (accounting concentration): Economics 100 and 102; Mathematics 101 or 110; Administration 210 or Mathematics 150 or 350; Administration 220, 301, 302, 303, 304, 305, 306, 330, 340, 345, 370, 420 and 490. In addition, students must complete one of four speciality areas indicated below and the specified number of electives:

Public Accounting: Administration 371, 426, 438 and two electives chosen from Administration 230, 428, 525, 568, 575

Management Accounting: Administration 400, 430, 445 and two electives chosen from Administration 343, 360, 465, 569, 575

Internal Auditing: Administration 438, 445, 569 and two electives chosen from Administration 343, 371, 426, 568, 575

Administrative Data Processing: Administration 400, 421, Computer Science 345 and two electives chosen from Administration 360, 438, 465, 569, 575

With the prior approval of an advisor and the Dean of the School of Administration, the student may substitute other courses for these electives. Up to two of the electives may be chosen from other academic disciplines. Students in planning their career goals should review course offerings of other departments to determine if specific courses fit their career plans.

Requirements for the bachelor of science degree (management science concentration): Economics 100 and 102; Mathematics 101 or 110; Administration 210 or Mathematics 150 or 350; Administration 220, 301, 302, 303, 304, 305, 306, 330, 360, 400, 420, 421, 460, 465 and 490; Economics 490; Computer Science 140; plus one of the following electives: Administration 345, 435, 440, 461; Economics 480; Computer Science 345; Mathematics 350.

Transfer students, in consultation with an advisor, may request credit for two lower-division courses toward completion of the requirements for either the B.A. or the B.S. degree.

Requirements for the minor in business administration: Economics 100 and 102; Administration 302, 303, 304, 305, 306 and 330.

Requirements for the minor in public administration: Economics 102, Administration 302, 380 (or Political Science 380), 475 (or Economics 475), 480, 562 and 563.

Master of Business Administration and Master of Public Administration Degrees: Details of these programs are outlined in the Graduate Bulletin. The programs are open to both full-time and part-time students and generally require the equivalent of one year's full-time work for completion (45 units of graduate work including a comprehensive examination, M.B.A., or research project, M.P.A.).

Certificate Programs: The School of Administration offers certificate programs for students who are interested in course work in a specific field, but not necessarily a degree. Currently available are certificates in: accounting, financial management, human resources management and marketing management. Details on the certificate programs and course requirements for each are found in the section Certificate Programs, Page 79.

210. APPLIED BUSINESS STATISTICS

An introduction to statistical reasoning and application of primary statistical techniques used in solving managerial problems. Covers both descriptive and inferential statistics.

220. FUNDAMENTALS OF BUSINESS DATA PROCESSING

Introduction to business data processing for students with no previous background. Fundamental principles of business data processing utilizing illustrative cases of business applications.

230. LEGAL ASPECTS OF BUSINESS TRANSACTIONS

Principles of law affecting certain common business transactions with emphasis on the Uniform Commercial Code.

301. MANAGEMENT PRACTICES

Application of systems approach to business activities, with emphasis on planning, production and control. Process of management is discussed as it affects operations. Emphasis on principles and relationships rather than specific techniques.

302. HUMAN BEHAVIOR IN ORGANIZATIONS

Behavior of people in relation to managerial environment and the functional fields of administration. Selected behavioral concepts analyzed with respect to applications in management.

303. FINANCIAL THEORY

Basic principles of financial analysis for management. Techniques of financial decision-making for liquidity management, financial forecasting, dividend policy and selection of sources of capital. *Prerequisite: Administration 306.*

304. QUANTITATIVE ANALYSIS FOR MANAGEMENT

Introduction to mathematical tools used in administrative problem analysis; includes topics in set theory, functional analysis, linear algebra, interest and annuities. *Prerequisite: Mathematics 101 or 110.*

305. MARKETING MANAGEMENT

Marketing functions including products, channels, pricing and promotion.

306. CONCEPTS OF ACCOUNTING

Development and use of basic accounting information for management analysis, decision-making, planning and control relating to operations.

307. PUBLIC RELATIONS IN THE PUBLIC SECTOR

Public relations as an inherent aspect of management in the public sector. Problems and techniques of administration of programs to manage and improve public relations.

330. LEGAL ENVIRONMENT OF BUSINESS

Study of the legal system; nature and source of law as applied to business activity; statutes and significant cases involving business policies; effect of public policies on private enterprise system.

340. MANAGERIAL ACCOUNTING

Accounting information systems used by management. *Prerequisite: Administration 306.*

343. STUDIES IN MANAGERIAL ACCOUNTING

Intensive study of selected topics relating to current problems and areas of controversy in managerial accounting. *Prerequisite: Administration 340.*

345. COST ACCOUNTING AND CONTROL

Theories and practice relating to cost accumulation and analysis for management planning and control. *Prerequisite: Administration 306.*

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350. ADMINISTRATIVE COMMUNICATIONS

Introduction to communication theory. Concepts, analysis and methods of improvement for interpersonal communication, communication within organizations and communication between organizations and their external environments.

355. MANAGEMENT OF ADMINISTRATIVE CONFLICT

Emphasis on development of conflict, theories of administrative conflict and methods of resolving such conflict. *Prerequisites: Administration 301 and 302.*

360. STATISTICAL ANALYSIS FOR MANAGEMENT

Application of probabilistic models and statistical decision theory to decision-making within the enterprise; techniques for optimization of administrative decisions. *Prerequisites: Administration 304; and one of the following: Administration 210, Mathematics 150 or 350.*

370. FINANCIAL ACCOUNTING

Accounting theory and its application. Topic areas include financial statement analysis, funds and cash flows, income measurement, price level adjustments and valuations, and business combinations and consolidated statements. Emphasis is on accounting for the corporate form of organization. *Prerequisite: Administration 306.*

371. PROBLEM AREAS IN FINANCIAL ACCOUNTING

An examination of problem areas in financial accounting that affect external reporting. Emphasis is on the corporate form of organization. *Prerequisite: Administration 370.*

380. SURVEY OF PUBLIC ADMINISTRATION

An introduction to the study of public administration, including a survey of the major functions, structures, behaviors, processes and problems. (Also offered as Political Science 380. Students may not receive credit for both.)

400. QUANTITATIVE DECISION METHODS

Quantitative methods of analysis used in solution of administrative problems, including linear programming and calculus applications. *Prerequisites: Administration 304; and one of the following: Administration 210, Mathematics 150 or 350.*

402. STUDIES IN ORGANIZATIONAL BEHAVIOR

Review and presentation of selected areas of behavioral science research and its application to management practices. Selected subjects may include: motivation, communication, change and leadership. *Prerequisite: Administration 302.*

410. CONSUMER BEHAVIOR

Nature and determinants of consumer attitudes, consumption and purchasing behavior. *Prerequisite: Administration 305.*

411. RETAILING

History, development, organization and management of retail institutions. Emphasis is on retail store operations, such as location, layout, planning, control of budgets, personnel, pricing and customer services. *Prerequisite: Administration 305.*

412. ADVERTISING

Stimulation of market demand through advertising media, including printed messages, radio and television, developing the advertising appeal, selecting the media, placing copy and measuring results. Consideration of social consequences of advertising. *Prerequisites: Administration 305 and 410.*

413. PROCUREMENT

Interaction of buyer and seller in the organizational environment. Problems in procurement by industrial and governmental organizations. Topics include: buying policies, vendor selection, and quantity and quality determination. *Prerequisite: Administration 305.*

420. COMPUTER MANAGEMENT

Intermediate level approach to techniques, equipment, programming and managing computer operations. *Prerequisites: Administration 220 and 304.*

421. ADVANCED ADMINISTRATIVE COMPUTER ANALYSIS

In-depth treatment of administrative computer systems examining the file structure and data management of on-line systems. Topics include the meaning and construction of data elements, file organization and data base design. *Prerequisite: Administration 420.*

426. FEDERAL TAXATION ADMINISTRATION

Analysis of federal taxes with emphasis on research, contemporary interpretations and business policy formulation. *Prerequisites: Administration 306 and senior standing.*

428. ACCOUNTING FOR COMBINED CORPORATE ENTITIES

A comprehensive study of business combinations. Emphasis on accounting problems associated with mergers, acquisitions and technical problems of preparing consolidated financial statements. *Prerequisite: Administration 371 or consent of instructor.*

430. FINANCIAL POLICIES AND SYSTEMS

Financial management with application to capital markets, financial planning, capital budgeting, capital structure, portfolio selection and managerial problems. *Prerequisite: Administration 303.*

431. REAL ESTATE FINANCE AND INVESTMENT

Theoretical and pragmatic methods of analyzing real estate investments. Real estate investment opportunities are evaluated in light of investment objectives. Meets California statutory course requirements for real estate license. *Prerequisite: Administration 303 or consent of instructor.*

435. INVESTMENT ANALYSIS

Analysis and forecasting of security markets, industry studies, portfolio construction. *Prerequisite: Administration 303.*

438. AUDITING

Function of the auditor, viewed from the perspective of professional ethics. SEC standards of reporting, auditor's legal liabilities. Techniques include internal control, sampling, standards of statement presentation, use of the computer as an auditing tool. Case studies emphasize design of audit programs, working papers and audit reports. *Prerequisites: Administration 306 and 370.*

440. MARKETING RESEARCH

Analysis of markets, survey methodology, sample design, quantitative techniques in market research projects. *Prerequisites: Administration 304 and 305; and one of the following: Administration 210, Mathematics 150 or 350.*

442. SMALL BUSINESS MANAGEMENT

Managerial considerations for the small business entrepreneur. Acquisitions, location, legal considerations, finances, taxation, labor relations and other topics. *Prerequisite: consent of instructor.*

445. ACCOUNTING SYSTEMS MANAGEMENT

Concepts of accounting systems with emphasis on the information and control functions of the management decision-making process. *Prerequisites: Administration 220 and 340.*

451. ORGANIZATION AND MANAGEMENT THEORY

Development and analysis of organization and management theory. Comparative analysis seeking patterns and systematic explanation of differences among organizations. Dynamics of interaction between organizations and environment. *Prerequisites: Administration 301 and 302.*

455. HUMAN RESOURCES MANAGEMENT

Policies relating to human resources; manpower planning, personnel selection and development, performance appraisal, compensation, relationships with unionized employees, collective bargaining. *Prerequisite: Administration 302.*

456. PSYCHOLOGY OF HUMAN RESOURCES

Review of research in application of psychology to selection, evaluation and training of human resources. Topics include fair employment legislation, job analysis methodologies, merit evaluation, interviewing techniques and psychometric methods. (Also offered as Psychology 456. Students may not receive credit for both.) *Prerequisites: Administration 455 or Psychology 355; and one of the following: Administration 210, Mathematics 150 or 350.*

457. INDUSTRIAL AND LABOR RELATIONS

Social forces leading to collective employee action in relation to labor legislation and collective bargaining. Utilizes current development, case law and bargaining simulation. *Prerequisite: Administration 455.*

458. EMPLOYMENT POLICIES AND PRACTICES

Evaluation of employer-employee relationships. Utilizes case analysis for the study of policy in the areas of collective bargaining, selection and placement, affirmative action, job design and manpower utilization. *Prerequisites: Administration 455 and senior standing.*

460. PRODUCTION PLANNING AND CONTROL

Analysis of production resources; measurement and evaluation of man-machine systems; forecasting, planning and scheduling; quality and quantity control. *Prerequisites: Administration 301 and 304.*

461. QUALITY CONTROL MANAGEMENT

Analysis of quality control systems, including organization of the quality control activity, methods for measuring the effectiveness of the function and the implementation of statistical quality control techniques. *Prerequisites: Administration 304; and one of the following: Administration 210, Mathematics 150 or 350.*

462. HUMAN FACTORS DESIGN

Principles of human factors engineering, design of the industrial environment and man-machine system development as applied to industrial, urban and services delivery systems. (Also offered as Psychology 462. Students may not receive credit for both.) *Prerequisite: one of the following: Administration 210, Mathematics 150 or 350, Psychology 210.*

465. OPERATIONS RESEARCH

Principles of management science in executive decision-making. Algebraic and geometric representations of optimization models in management. Problems in production, marketing, finance, purchasing and personnel administration. *Prerequisite: Administration 400.*

470. MANAGEMENT OF INTERNATIONAL OPERATIONS

Cultural, economic, legal, political and institutional factors influencing international operations. Organizational, marketing, financial, production and labor problems, policies and practices in the international arena.

475. PUBLIC FINANCE

Rationale for government actions in an economy which emphasizes private sector allocation; principles of taxation, theories of tax incidence, expenditure evaluation, government sources and uses of revenue, and government budgeting. (Also offered as Economics 475. Students may not receive credit for both.) *Prerequisite: Economics 102.*

480. ORGANIZATIONAL PROBLEMS IN PUBLIC ADMINISTRATION

Administrative and management problems as they exist within public organizations and agencies. *Prerequisites: Administration 380 (or Political Science 380) or consent of instructor.*

490. ADMINISTRATIVE STRATEGY AND POLICY

An integrative, problem-solving approach to problems which confront the administrator. Topics are explored by utilizing skills and techniques developed in previous course work. *Prerequisites: senior standing and administration core.*

525. CPA REVIEW

Comprehensive study of the application of accounting principles and theory to problems of current interest. Emphasis on approaches to solving problems typically found on the Certified Public Accountant examination. *Prerequisite: Administration 428 or consent of instructor.*

530. BUSINESS AND SOCIETY

Evaluation of American business systems; political, legal and social factors influencing business; role of business in alleviating society's problems. *Prerequisite: senior or graduate standing.*

550. MANAGEMENT AND ORGANIZATIONAL DEVELOPMENT

Approaches to studying management development from the dual perspectives of effecting changes in organization systems and individual behavior. *Prerequisite: senior or graduate standing.*

557. PUBLIC SECTOR LABOR RELATIONS

Analyzes issues created by collective bargaining and unionism in public sectors. Examples: selection of bargaining agents, bargaining scope and obligation, impasse resolution and grievance procedure. *Prerequisite: Administration 457 or Administration 562.*

562. PUBLIC PERSONNEL ADMINISTRATION

Definition, description and evaluation of government personnel systems; classification, compensation, recruitment, examination, training, working conditions, incentives, performance ratings, public employee organizations and organizational development in the public service. *Prerequisite: Administration 302.*

563. GOVERNMENTAL BUDGETING

Role of the budgetary process in government management, the public sector environment of budgeting, budget formulation and administration. *Prerequisite: Administration 475 or Economics 475, or consent of instructor.*

565. PROBLEMS IN PUBLIC FINANCE

Selected topics in public finance such as government sources and uses of revenue, expenditure evaluation and debt management. (Also offered as Economics 565. Students may not receive credit for both.) *Prerequisite: Economics 475 or Administration 475.*

566. URBAN ADMINISTRATION

Administrative problems and characteristics of public management in the urban area. *Prerequisite: senior standing or consent of instructor.*

567. PROGRAM PLANNING AND BUDGETING SYSTEMS IN GOVERNMENT

Processes involved in budget formulation and legislative enactment. Inter-organizational arrangements, methods and tools such as cost-benefit analysis. Emphasis on operating agency. *Prerequisite: Administration 563 or consent of instructor.*

568. GOVERNMENTAL FINANCIAL MANAGEMENT AND ACCOUNTING

An introduction to financial management practices in the public sector with emphasis on controls and fund accounting. *Prerequisite: Administration 306.*

569. THEORY AND PRACTICE OF INTERNAL AUDITING

Internal auditing in both the public and private sectors. Emphasis on audit organization, professional standards, internal audit philosophy, audit processes and other topics. *Prerequisite: Administration 306.*

575. INTERNSHIP IN ADMINISTRATION

Supervised work and study in private or public organizations. May be repeated once for credit. Graded credit/no credit. *Prerequisite: consent of instructor and school.*

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590. SEMINAR IN ADMINISTRATION

An intensive study of some phase of administration to be developed by the instructor. May be repeated for credit as topics change.

595. INDEPENDENT STUDY

Special topics involving library and/or field research. *Prerequisites: school approval of written proposal of project and consent of instructor.* (Credit to be arranged: 2 to 5 units.)

600-level courses are open to postbaccalaureate and graduate students only.

600. FOUNDATIONS OF PUBLIC ADMINISTRATION

Advanced concepts of public administration, its role in society, management of public business, survey of the major functional fields and selected problems. *Prerequisites: Administration 301 and 302, or equivalents.*

601. ORGANIZATION THEORY AND BEHAVIOR

A critical analysis of theories for viewing organizations and an examination of the common models for understanding human behavior, including executive behavior, within the constraints of a complex social system. *Prerequisites: Administration 301, 302, or equivalents.*

602. FINANCIAL PLANNING AND CONTROL

Current developments and controversies in accounting and financial controls for government and industry. Analysis of financial management in the context of recent technological, sociological and environmental changes. *Prerequisites: Administration 303, 306 or equivalents.*

603. RESEARCH METHODS IN ADMINISTRATION

Principles of research design, development of research instruments, data accumulation and analysis of significant data. Critique of sample research studies from the literature and a research study conducted by the student. *Prerequisite: Administration 210 or Mathematics 150 or equivalent.*

604. QUANTITATIVE METHODS IN ADMINISTRATION

Concepts and techniques used for quantitative analysis in management. Topics in matrix algebra, linear programming, game theory and regression analysis for model building and problem solving. *Prerequisites: Administration 304 or equivalent; and one of the following: Administration 210, Mathematics 150 or 350.*

610. DECISION THEORY FOR MANAGEMENT

Behavioral and quantitative approaches to administrative decision making. *Prerequisites: Administration 601 and 604.*

620. MARKETING PLANNING AND CONTROL

Problem solving and decision making in marketing and the interacting effects of such factors as selling, advertising, pricing, consumer behavior and channels of distribution. *Prerequisites: Economics 100 and 102, or equivalents, or Economics 305.*

630. PRODUCTION SYSTEMS DEVELOPMENT

Production function (both products and services) in management and its importance as a subsystem of administrative operations. *Prerequisite: Administration 604.*

640. INDUSTRIAL RELATIONS AND PERSONNEL PROBLEMS

Specific areas and problems in the administration of business personnel systems and of labor-management relations. *Prerequisite: Administration 601.*

642. COMMUNICATION AND INTERPERSONAL PROCESSES

Various theories of interpersonal processes and communication as they relate to organizational efficiency and effectiveness, as well as a consideration of the organization as a communication system. *Prerequisite: Administration 601.*

650. MANAGEMENT INFORMATION AND CONTROL SYSTEMS

Study and design of management information systems, their implementation and the integration of their operations within the organization. *Prerequisites: Administration 301, 304 and 602, or equivalents.*

652. ACCOUNTING THEORY AND RESEARCH

Development of accounting theory; accounting standards, doctrines and conventions; current problems; survey of current literature in accounting. *Prerequisites: Administration 602 and 603.*

660. ADMINISTRATIVE SYSTEMS ANALYSIS

A theoretical and applied understanding of the systems approach as used in public administration planning, analysis and design. *Prerequisite: consent of instructor.*

670. LOCAL ADMINISTRATION

City, county, school district and special district administration, including management of the following functions: police, fire, health, education, welfare, probation, public works, environment, tax and personnel. *Prerequisites: Administration 600 and 601.*

680. PUBLIC POLICY ANALYSIS

An integrative course examining the analytical, behavioral and systems sciences approaches to public administrative systems with emphasis upon the development of evaluative skills in applied decision making. *Prerequisites: Administration 562, 563, 600, 601, 603.*

695. GRADUATE RESEARCH PROJECT

Required field study in public administration, including both literary and empirical research. *Prerequisites: completion of, or concurrent enrollment in, all other courses for the Master of Public Administration; and consent of instructor and school.*

698. EXTENDED ENROLLMENT

Independent study leading to completion of requirements (other than course work) for the master's degree. Students enrolled in this course have full use of College facilities. *Prerequisites: advancement to candidacy and consent of school.* (0 units)

AMERICAN STUDIES

The College is adding to its curriculum courses in American studies to serve those students seeking a comprehensive understanding of American culture.

300. INTRODUCTION TO AMERICAN STUDIES

Concepts and definitions essential to an interdisciplinary approach to American civilization and an application of these to some aspect of American experience.

501. SEMINAR IN AMERICAN STUDIES

Special topics in some aspect of American civilization suitable for the particular background of the student. May be repeated for credit as topics change.

ANTHROPOLOGY

The study of anthropology promotes an understanding of self and all mankind by exploring man's nature at all times and in all places. In the modern world in which every society depends upon other societies, ignorance of the goals, values and ways of life of others may become a fear leading to discrimination and racism in the community or to war and oppression between nations. The challenges of desert life for the Australian Aborigine and the problems of contemporary ghetto existence are of equal interest to the anthropologist, and courses in these topics and world ethnography are offered by the Anthropology Department. Man's physical and cultural evolution, the distribution and significance of racial differences, the history and ecology of specific areas, and the role of language in culture are treated in courses in physical anthropology, archaeology and prehistory, and linguistics.

Requirements for the major: a minimum of eight upper-division courses in anthropology including: Anthropology 300; 511 or 590; two courses from Anthropology 301, 305, 310, 315, 330, 351, 352, 354, 356, 360, 361, 390, 451; three courses from Anthropology 455, 456, 457, 460, 465, 470, 475, 480, 490, 491, 492, 493, 550, 590, 595; one additional upper-division course in anthropology (or a related field as approved by an advisor).

Anthropology 100 and 102 or an equivalent background are ordinarily required for enrollment in upper-division anthropology courses.

Requirements for a minor in anthropology: Anthropology 100, 102 and four upper-division courses selected in consultation with an advisor.

100. INTRODUCTION TO ANTHROPOLOGY: HUMAN EVOLUTION

Man's biological and social evolution through time.

102. INTRODUCTION TO ANTHROPOLOGY: CULTURE AND SOCIETY

Structure and dynamics of man's cultural experience; comparative analysis of language, religion, economic patterns and social and political organization in traditional and complex societies.

300. ARCHAEOLOGY

History of archaeological research, a survey of concepts and methods for the study of prehistoric culture and a summary of major sequences in prehistory.

301. OLD WORLD PREHISTORY

The prehistory and protohistory of Eurasia and Africa, emphasizing the growth of culture and the origin and spread of civilization.

305. NEW WORLD PREHISTORY

The prehistory of North, Middle and South America, emphasizing the peopling of the New World, the earliest American Indian cultures and later regional developments.

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310. ANCIENT CIVILIZATIONS OF THE NEW WORLD

The origin, spread and decline of pre-Columbian civilizations in the New World.

315. SOUTHWESTERN ARCHAEOLOGY

The prehistoric cultures of the American Southwest, their origins, characteristics and relationships.

330. CROSS-CULTURAL CHILD-REARING PRACTICES

Cross-cultural examination of child-rearing practices from the perspective of major anthropological theories of personality formation and its relationship with culture.

WORLD CULTURES (Anthropology 351-361)

Emphasis in the following courses is on major problems of current interest to the cultural anthropologist. Topics include general discussion of physical anthropology, language, affiliations and culture, history of the area, the native populations, their relations with each other and to outside societies, and the effects of culture change upon them through time.

351. INDIANS OF NORTH AMERICA

352. INDIANS OF THE SOUTHWEST

354. CULTURES OF MEXICO AND CENTRAL AMERICA

356. CULTURES OF SOUTH AMERICA

360. PEOPLES OF AUSTRALIA

361. PEOPLES OF MICRONESIA, MELANESIA AND POLYNESIA

390. SELECTED TOPICS IN ANTHROPOLOGY

An anthropological examination of a selected topic. May be repeated for credit as topics change.

451. AMERICAN INDIANS AND WHITE SOCIETY

The present position and problems of American Indians in the U.S. and the history of Indian-White relations. No prerequisite, although Anthropology 351, 470 or an American history course is recommended.

455. ADVANCED PHYSICAL ANTHROPOLOGY: HUMAN VARIATION

The processes of adaptive differentiation in man and the assessment of significant differences among human races; the influence of culture in microevolutionary phenomena and the analysis of blood groups and other gene distributions in modern populations. *Prerequisite: Anthropology 100 or equivalent or consent of instructor.*

456. ADVANCED PHYSICAL ANTHROPOLOGY: PRIMATE STUDIES

Taxonomy and fossil record of the nonhuman primates. Primate behavior as a basis for the reconstruction of prehistoric human behavior. *Prerequisite: Anthropology 100 or equivalent or consent of instructor.*

457. ADVANCED PHYSICAL ANTHROPOLOGY: PALEOANTHROPOLOGY

The analysis of the anatomical and behavioral evidence of fossil man and earlier hominid forms. Discussion of the problems involved in reconstructing the direction of human physical and cultural evolution. *Prerequisite: Anthropology 100 or equivalent or consent of instructor.*

460. LANGUAGE AND CULTURE

Analysis of languages stressing the relationship of language to patterns of human behavior.

465. PSYCHOLOGICAL ANTHROPOLOGY

Cross-cultural comparisons of personality and its formation, stressing the mutual interrelationship of cultural, social and psychological factors in human behavior. *Prerequisite: Anthropology 102 or equivalent, or Psychology 100 or equivalent, or consent of instructor.*

470. CULTURE CHANGE AND DYNAMICS

An examination and evaluation of the various theories that have been proposed to explain societal change using actual case study materials.

475. CULTURAL ECOLOGY

An examination of theories, methods and applications of the ecological perspective in the anthropological study of human cultures, and a cross-cultural comparison of adaptations to different ecological niches.

480. MAGIC, RELIGION AND SCIENCE

A comparative study of the widely varied attempts by members of human societies to order, control and make predictions about their physical and social environments.

490. SYSTEMS OF SOCIAL ORGANIZATION

A comparative description and analysis of social integration in human societies.

491. POLITICAL ANTHROPOLOGY

An examination of anthropological concepts relevant to comparative studies of traditional political systems and their relationships to other aspects of culture, with an emphasis on tribal and other nonindustrial cultures.

492. ECONOMIC ANTHROPOLOGY

An anthropological approach to the analysis of systems of production and exchange in nonindustrial societies.

493. URBAN ANTHROPOLOGY

Utilization of ethnographic and cross-cultural materials in an examination of anthropological concepts and methods for the study of urban environments and the processes of urbanization.

511. METHODS AND THEORY IN ANTHROPOLOGY

An in-depth examination of the development and current status of major methodological and theoretical orientations in anthropology. *Prerequisite: senior or graduate standing or consent of instructor.*

550. FIELDWORK IN CULTURAL ANTHROPOLOGY

Supervised design, execution and analysis of an ethnographic field project. *Prerequisite: consent of instructor.*

590. SEMINAR IN ANTHROPOLOGY

Study of selected topics in anthropology. May be repeated for credit, with consent of instructor.

595. INDEPENDENT STUDY

Special topics involving library and/or field research. *Prerequisites: departmental approval of written proposal of project and consent of instructor. (Credit to be arranged: 2 to 5 units.)*

ART

The challenge for visual artists is to discover what is already there, to open up and probe what is inside and outside themselves and to find a means of giving it back to the whole world. It is this adventure which is the focus of the Department of Art.

A student may either major or minor in art, and eventually chooses one or more specific areas of concentration. The choice is governed by the student's experiences with various media, concepts and techniques, but this is not a rigid choice as new interactions among these elements are constantly being developed.

Two programs are available for students working for the Bachelor of Arts in Art and two options are available for a minor in art. The studio areas of concentration currently offered are: ceramics, crafts, weaving and fiber construction, glass blowing, painting and drawing, printmaking, sculpture, and woodworking and furniture design.

Requirements for the major (Plan I): Art 201, 203, 204, four courses in the history of art, two upper-division studio courses in a single area of concentration, and three upper-division electives in the department. This program is designed for students seeking a liberal education with an emphasis in art, and is recommended for those who wish to teach at the secondary school level.

Requirements for the major (Plan II, single studio area of concentration): Art 201, 203, 204, five courses in the history of art, four upper-division studio courses in a single area of concentration, and three upper-division electives in the department. This program is designed for the student with a strong professional interest in art who may wish to pursue graduate studies. Such students are strongly advised to take Art 210 and 211.

In addition to their courses in art, students are urged to seek electives in related areas of creative expression. Suggested possibilities include acting, creative writing, music seminar in electronic composition.

Art majors under both plans are required in the senior year to arrange an exhibit or review of representative examples of studio work completed while in residence at this College.

Students in either plan interested in the history of art may use the three upper-division electives in art in that area. Students contemplating graduate studies in art history are strongly advised to learn French or German.

Note: A third program is being developed for students working for the Bachelor of Arts, Plan III (art history area of concentration). Contact the Department of Art for further details.

Field trips are required in most art history courses and several studio courses as well. Also, in many courses students are required to pay for materials used.

Minor in studio art: Art 201, 203, 204; three courses in art history; and one upper-division studio course.

Minor in art history: seven courses in art history. With the advisor's approval

up to two selected courses may be substituted from two of the following fields: anthropology, drama, music and philosophy. In most cases, students who have completed the minor in art history and four terms of a foreign language or equivalent proficiency can easily complete the requirements of a humanities major as well.

200. STUDIES IN ART

Exploration of the form and content of art. Cannot be counted toward fulfillment of requirements in the major.

201. FOUNDATION STUDIO IN ART

Organization of two-dimensional phenomena with an emphasis on the interaction of color.

203. FOUNDATION STUDIO IN ART

The organization of three-dimensional phenomena.

204. DRAWING AND LIFE DRAWING

Exploration in techniques of drawing for purposes of creative expression related to object and figure placement in space.

Art 201, 203 and 204 represent a foundation group that can be taken in any sequence. This group or its equivalent must be completed before enrollment in upper-division studio courses—with certain exceptions as noted in course descriptions.

210. WESTERN ART HISTORY I

History and development of styles and procedures in art from prehistoric times through the Middle Ages.

211. WESTERN ART HISTORY II

History and development of styles and procedures in art from the proto-Renaissance period in Italy to the rise of French Impressionism.

303. DESIGN STUDIES

Study and experimentation in creative problem solving and various techniques in visual design.

304. ADVANCED DRAWING AND LIFE DRAWING

Further exploration in techniques of drawing for purposes of creative expression. May be repeated for a maximum of 25 units. *Prerequisite: Art 204 or consent of instructor.* A. (5 units) B. (5 units) C. (5 units) D. (5 units) E. (5 units)

309. MODERN EUROPEAN ART

Development of European art from 1850 to 1945.

311. ART OF THE UNITED STATES TO 1895

Development of American art from the Colonial period to 1895. Significant examples from the fields of architecture, sculpture, painting and the minor arts.

313. MODERN ART OF THE UNITED STATES

Art in America from 1895 to the present.

314. THE ART OF INDIGENOUS PEOPLES

Art of the native cultures of North, Central and South America; the South Pacific; Africa.

316. ARTS OF THE NEAR EAST

History and development of the arts of the ancient Near East and Islam.

317. ART OF THE FAR EAST I

History and development of styles of art from prehistoric times in India, Ceylon, Central and Southeast Asia.

318. ART OF THE FAR EAST II

History and development of styles of art from prehistoric times in China, Korea and Japan.

325. STUDIES IN MEXICAN AND CHICANO ART

Visual history of pre-Columbian Mexico, changes after the conquest to contemporary times and their influences on the Chicano art movement today.

326. BAROQUE ART

Exploration of concepts and themes in 17th century art: mysticism, academicism, rationalism, domesticity, encounter, humor and love.

331. PAINTING I

Pictorial functions of formal elements of picture-making such as line, plane, color and light, pattern and edge. *Prerequisites: Art 201 and 204.*

334. ADVANCED PAINTING

Advanced work in painting. May be repeated for a maximum of 20 units. *Prerequisite: Art 331 or consent of instructor.* A. (5 units) B. (5 units) C. (5 units) D. (5 units)

340. SCULPTURE

Approaches to sculpture using a variety of materials, tools, processes and concepts. May be repeated for a maximum of 25 units. *Prerequisite: Art 203 or consent of instructor.* A. (5 units) B. (5 units) C. (5 units) D. (5 units) E. (5 units)

354. CERAMICS I

Procedures of hand building, throwing, slip casting and glazing as practiced by the studio potter and the ceramic sculptor.

357. ADVANCED CERAMICS

Advanced work in ceramics. May be repeated for a maximum of 20 units. *Prerequisites: Art 203 and 354 or consent of instructor.* A. (5 units) B. (5 units) C. (5 units) D. (5 units)

360. PRINTMAKING

Creative research into studio techniques in relief, intaglio, collographic, planographic and stencil processes. May be repeated for a maximum of 25 units. *Prerequisites: Art 201 and 204.* A. (5 units) B. (5 units) C. (5 units) D. (5 units) E. (5 units)

373. WOODWORKING AND FURNITURE DESIGN

Exploratory experiences in the use of hand and power tools in woodworking techniques for the fabrication and design of wood projects. May be repeated for a maximum of 25 units. *Prerequisite: Art 203 or consent of instructor.* A. (5 units) B. (5 units) C. (5 units) D. (5 units) E. (5 units)

374. WEAVING AND FIBER CONSTRUCTION

Design and execution of woven and nonwoven textile structures using a variety of techniques. Exploration in the use of various fibers in the form of yarns, rope, cord and cane, and the possibilities of weaving without a standard loom. May be repeated for a maximum of 25 units. *Prerequisite: Art 203 or consent of instructor.* A. (5 units) B. (5 units) C. (5 units) D. (5 units) E. (5 units)

375. GLASS BLOWING

The techniques of furnace glass working involving gathering molten glass on blow pipes and punti rods, as well as cold working, as used in the formation of both functional and sculptural glass objects. May be repeated for a maximum of 25 units. *Prerequisite: Art 203 or consent of instructor.* A. (5 units) B. (5 units) C. (5 units) D. (5 units) E. (5 units)

376. JEWELRY AND METALSMITHING

Design and fabrication of jewelry and hollow ware including the techniques of bending, forming, soldering and casting. May be repeated for a maximum of 15 units. *Prerequisite: Art 203 or consent of instructor.* A. (5 units) B. (5 units) C. (5 units).

395. ART IN THE CLASSROOM

Providing art experiences through the use of varied art media in the elementary school. May not be counted toward fulfilling requirements of courses in the major.

397. EXPLORATION IN ART

Uses of a variety of art materials, processes and concepts for the purposes of creative expression. Designed for the nonart major and the elementary school teacher. May not be counted toward fulfilling requirements of courses in the major.

410. STUDIES IN ART HISTORY

Study in a selected period in the history of art. May be repeated for credit.

426. DADA AND SURREALISM

Exploration of the fantasies, dreams and visions in the Dada and surreal worlds.

429. SPECIALIZED STUDIO PROJECTS

Study and experimentation developed in consultation with the instructor from the student's individual abilities and needs. *Prerequisite: consent of instructor.*

482. STUDIO WORKSHOP

Study and experimentation in a selected area of art. May be repeated for credit. *Prerequisites: Art 201, 203 and 204 or consent of instructor.* (Credit to be arranged: 2 to 5 units)

499. METHODS AND MATERIALS IN THE TEACHING OF ART

A studio course dealing with media exploration, community resources, art classroom organization and contemporary art education philosophy. This course may not be counted toward fulfilling requirements of courses in the major. *Prerequisites: Education 330, senior or graduate standing and admission to the teacher credential program.*

510. COLLOQUIUM IN ART

Inquiry into problems of art history, aesthetics and art criticism. May be repeated for credit. *Prerequisite: consent of instructor.*

BILINGUAL/CROSS-CULTURAL STUDIES

The courses listed below are intended to be used by students who wish to complete simultaneously the B.A. in Liberal Studies and the requirements for the multiple subjects credential with the bilingual/cross-cultural option. For further information concerning credential programs, contact the School of Education.

ANTHROPOLOGY 460. LANGUAGE AND CULTURE

ART 325. STUDIES IN MEXICAN AND CHICANO ART

EDUCATION 533. TEACHING THE CULTURALLY DIFFERENT: THE CHICANO

EDUCATION 534. TEACHING THE CULTURALLY DIFFERENT: THE BLACK AMERICAN

FOREIGN LANGUAGES 450. (SPANISH 450.) LITERATURE IN TRANSLATION: MEXICAN

HISTORY 390. HISTORY OF MEXICO

HISTORY 391. CHICANO HISTORY

HISTORY 565. ETHNIC MINORITIES IN AMERICAN HISTORY

HUMANITIES 460. CULTURE STUDIES: MEXICO

INTERDISCIPLINARY STUDIES 460. ASPECTS OF CHICANO CULTURE

MUSIC 351. MEXICAN AND CHICANO MUSIC

POLITICAL SCIENCE 351. THE CHICANO AND POLITICS

PSYCHOLOGY 347. PSYCHOLOGICAL DEVELOPMENT OF THE CHICANO

SOCIAL SCIENCES 220. INTRODUCTION TO CHICANO STUDIES

SOCIOLOGY 342. THE CHICANO FAMILY

SOCIOLOGY 410. RACIAL AND CULTURAL MINORITIES

SPANISH 204. INTRODUCTION TO LITERARY TEXTS

SPANISH 302. THEORY AND PRACTICE IN COMPOSITION

SPANISH 440. MEXICAN LITERATURE

BIOLOGY

The major in biology emphasizes the relationship between structure and function in living systems and the concept that biological processes can be studied at different levels of organization. The program provides a balanced blend of traditional and modern biology, incorporating the important generalizations of traditional biology and the more recent advances essential to the successful biologist or medical practitioner of the future.

The excellent facilities and equipment of the department are readily available to all students enrolled in biology courses. Qualified seniors are encouraged to engage in research projects through the independent study program.

Many career opportunities are available to the student majoring in biology. The undergraduate program provides an excellent background for further work in medicine, dentistry, veterinary medicine, medical technology and graduate programs; and it also can serve for direct entry into public school teaching and a variety of positions in industrial, research and governmental organizations.

Requirements for the bachelor of arts degree: Mathematics 101 or 150 or 200; Physics 111 and 112 or 211 and 212; Chemistry 215 and 216; 225 and 226 or 321, 322 and 323; Biology 200, 201, 202 and six upper-division courses in biology (which may include Chemistry 436 and 437) totaling no less than 30 units.

Requirements for the bachelor of science degree: Mathematics 101 or 150 or 200; Physics 111 and 112 or 211 and 212; Chemistry 215, 216 and 217; 225 and 226 or 321, 322 and 323; Biology 200, 201, 202; four courses selected from Biology 400 (or Chemistry 437), 423, 424 or 431, 440, 450; and six upper-division courses in biology (which may include Chemistry 436 and 437) totaling no less than 30 units.

All courses leading to either a B.A. or a B.S. are to be selected in consultation with a departmental advisor.

Requirements for a minor in biology: Biology 200, 201, 202 and three additional upper-division courses in biology totaling no less than 15 units; Chemistry 215 and 216; and one of the following courses: Physics 100, 111, 211, Mathematics 101, 150, 200.

In a number of courses, field trips are normal and frequent.

Preprofessional students of medicine, dentistry or other science-based fields seeking a major in biology should refer to Page 66 of this bulletin and consult with a departmental advisor.

Departmental Honors: Candidacy for departmental honors in biology is voluntary. To be eligible a student must fulfill the following requirements: achieve a minimum GPA of 3.5 for all courses satisfying the requirements for the major (as defined above), take at least five courses in the major at the College, complete satisfactorily a senior project and complete satisfactorily the departmental comprehensive examination. Application for candidacy must be made at the beginning of the senior year. Approval of candidacy and of the project and project

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advisor rests with the department. The project advisor will have sole responsibility for acceptance of the completed project.

The department may grant honors to the exceptional student who fails to meet the above requirements, but who has in the judgment of the department brought distinction upon himself and the department in some other appropriate manner.

Master of Science Degree: Details of this program and application procedures are outlined in the Graduate Bulletin. The program is open to both full-time and part-time students and generally requires the equivalent of one year's full-time work for completion (45 units of graduate study including completion of master's thesis and final oral examination).

100. TOPICS IN BIOLOGY

Major generalizations of biology with particular emphasis on man's interaction with the biosphere. Lecture and three hours of laboratory.

200. BIOLOGY OF THE CELL

Introduction to cellular structure and function. Lecture and three hours of laboratory. *Pre- or corequisite: Chemistry 215 or consent of instructor.*

201. BIOLOGY OF ORGANISMS

Introduction to the structural and functional attributes of organisms. Lecture and three hours of laboratory. *Prerequisite: Biology 200 or consent of instructor.*

202. BIOLOGY OF POPULATIONS

Introduction to the principles of ecology and evolution. Lecture and three hours of laboratory.

220. PRINCIPLES OF MICROBIOLOGY

Morphology, physiology and classification of bacteria, yeasts, molds, rickettsiae and viruses. Bacteriology of air, soil and dairy products; rudiments of infection and immunity. Laboratory training in culture preparation, sterilization, inoculation and identification. Lecture and six hours of laboratory. *Prerequisite: one lower-division biology course. (6 units)*

222. HUMAN ANATOMY AND PHYSIOLOGY

Survey of structure and function of human organ systems with emphasis on homeostasis. May not be counted toward fulfilling requirements in the major. Lecture and three hours of laboratory. *Prerequisite: one lower-division biology course.*

310. SCIENCE AND HUMAN PHENOMENA

Integrated course emphasizing the dynamic aspects of biology, chemistry and physics as they relate to the function of the human body and biomedical instrumentation. Lecture and three hours of laboratory. May not be counted toward fulfilling requirements in the major. *Prerequisite: a college course in biology.*

313. HISTORY OF BIOLOGY

Major developments in biological thought and their intellectual impact from the Greeks to the present. An elective course for nonmajors as well as majors. Lecture only. *Prerequisite: one lower-division biology course.* Recommended: Social Sciences 142 and 144.

314. BIOLOGY OF HUMAN SEXUALITY

Biological aspects of human anatomy, physiology and behavior as related to sexual reproduction including discussion of fertility, pregnancy, childbirth and birth control; consideration also given to homosexuality, venereal disease, sexual intercourse and response. Lecture only. *Prerequisite: one lower-division biology course.*

315. INTRODUCTION TO HUMAN EMBRYOLOGY

An introductory course in human development. Emphasis on normal developmental sequences from fertilization to birth and on factors which can modify these normal sequences. Lecture only. This course is not appropriate for premedical students or biology majors and may not be counted toward major requirements in biology. *Prerequisite: Biology 100.*

316. GENETICS OF MAN

Principles of heredity as they apply to man. Lecture only. May not be counted toward fulfilling requirements in the major by students already receiving credit for Biology 423. *Prerequisite: one lower-division biology course.*

319. LOCAL FLORA

Identification of flora of the immediate San Bernardino area. Field collections, lecture and six hours of laboratory. May not be counted toward fulfilling requirements in the major by students already receiving credit for Biology 464. *Prerequisite: one lower-division biology course.* (6 units)

321. EVOLUTION

Darwin, the modern view of evolution and the implications of evolution in other disciplines. Lecture only. *Prerequisite: one lower-division biology course.*

331. BIOLOGY OF THE INVERTEBRATES

The evolution of the invertebrate phyla with emphasis on major phylogenetic changes. Lecture and six hours of laboratory. *Prerequisite: Biology 201.* (6 units)

335. ENTOMOLOGY

A study of the evolution, anatomy, classification and habits of insects and related arthropods. Lecture and six hours of laboratory. *Prerequisite: Biology 201.* (6 units)

342. BIOLOGY OF THE CHORDATES

Consideration of structural, physiological and ecological changes in the evolution of the chordate groups. Lecture and six hours of laboratory. *Prerequisite: Biology 201.* (6 units)

345. COMPARATIVE HISTOLOGY

Structure and function of animal tissues as shown by light and electron microscopy. Lecture and six hours of laboratory. *Prerequisites: Biology 201 and 342.* (6 units)

351. BIOLOGY OF LOWER PLANTS

A survey of the major structural and physiological features in the evolution of lower plants. Lecture and six hours of laboratory. *Prerequisite: Biology 201.* (6 units)

357. BIOLOGY OF HIGHER PLANTS

Comparative morphology of ferns, fern allies and seed plants, with a consideration of their phylogenetic relationships. Lecture and six hours of laboratory. *Prerequisite: Biology 201 or consent of instructor.* (6 units)

360. FUNCTIONAL ANATOMY OF PLANTS

Tissues and tissue aggregates in vascular plants, stressing the functional attributes of structure, with laboratory study of living and preserved plant material and prepared slides. Lecture and six hours of laboratory. *Prerequisite: Biology 201.* (6 units)

370. SYMBIOSIS

The nature and principles of biological interactions with a survey of various types of relationships such as commensalism, mutualism, parasitism and competition. Lecture only. *Prerequisite: Biology 201.*

371. PARASITOLOGY

Study of the nature and principles of parasitism with a survey of various types of animal parasites. Lecture and six hours of laboratory. *Prerequisite: Biology 201.* (6 units)

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376. BASIC FOUNDATION IN ENDOCRINOLOGY

Vertebrate endocrine system, with emphasis on mechanisms for regulating the biosynthesis, secretion, transport and actions of hormones. Designed for students interested in medicine and related areas. Not open to students who have taken Biology 541. Lecture only. *Prerequisites: organic chemistry and vertebrate physiology, or equivalent.*

395. THE BIOLOGIST AND PUBLIC POLICY

Seminar exploring the role of the biologist in helping society cope with complex biology-related problems such as overpopulation, environmental pollution and genetic engineering. Open to students in all majors. *Prerequisite: a college course in biology.* (2½ units)

400. MOLECULAR BIOLOGY

A basic course in biological chemistry with emphasis on gene function. May not be counted for credit by students who have received credit for Chemistry 437. Lecture and six hours of laboratory. *Prerequisites: Biology 201 and Chemistry 226 or 323.* (6 units)

423. GENETICS

Principles of classical and modern genetics including an introduction to population genetics. Lecture and six hours of laboratory. *Prerequisite: one year of biology, including Biology 202 or equivalent.* (6 units)

424. COMPARATIVE ANIMAL PHYSIOLOGY

A comparative analysis of the physiological mechanisms and processes of organisms with emphasis upon trends of evolutionary specialization. Lecture and six hours of laboratory. *Prerequisite: Biology 201. Pre- or corequisite: Chemistry 226 or 323.* (6 units)

431. COMPARATIVE PLANT PHYSIOLOGY

Analysis of water relationships and nutrient requirements of green plants, their metabolism and controlling mechanisms involved in their growth and development. Lecture and six hours of laboratory. *Prerequisite: Biology 201. Pre- or corequisite: Chemistry 226 or 323.* (6 units)

440. PRINCIPLES OF DEVELOPMENT

A comparative analysis of patterns and processes of development in organisms, with emphasis upon the role of genetic and biochemical mechanisms. Lecture and six hours of laboratory. *Prerequisite: Biology 201.* (6 units)

450. ECOLOGY

An analysis of the interrelationships of organisms and their physical and biotic environment with a consideration of the role of the environment in natural selection. Lecture, field studies and six hours of laboratory. *Prerequisites: Biology 201 and 202.* Recommended: Mathematics 150. (6 units)

464. TAXONOMY OF VASCULAR PLANTS

Taxonomic characteristics of vascular plant orders and families, with laboratory investigation of illustrative living and preserved plant material. Lecture and six hours of laboratory. *Prerequisites: Biology 201, 202 and 357.* (6 units)

466. BIOGEOGRAPHY AND EVOLUTION OF PLANT POPULATIONS

Consideration of major plant formations, with emphasis on world flora, evolutionary trends within major plant families and evolution of economically important cultivated plants. Lecture only. *Prerequisite: Biology 423.* Recommended: Biology 450 or 319.

470. BIOLOGY OF MICROORGANISMS

A study of microorganisms and their activities: microbial cell structure and function, metabolism, microbial genetics, microbial ecology, viruses and pathogenic microorganisms. Lecture and six hours of laboratory. *Prerequisites: Biology 201 and 202 and Chemistry 226 or 323.* Recommended: Biology 400 or Chemistry 437. (6 units)

474. HEMATOLOGY

Basic principles and current laboratory procedures used in the study of blood. Morphological and chemical characteristics of normal and abnormal blood tissue will be emphasized. Lecture and six hours of laboratory. *Prerequisite: Biology 424.* (6 units)

476. IMMUNOBIOLOGY

Antigens, antibodies and the immune response. Lecture and six hours of laboratory. *Prerequisites: Biology 400 or equivalent and Biology 424.* (6 units)

478. MEDICAL AND ECONOMIC ENTOMOLOGY

Survey of medically and economically important species harmful and beneficial to man. Lecture only. *Prerequisite: Biology 335 or consent of instructor.*

499. METHODS AND MATERIALS IN THE TEACHING OF BIOLOGY

This course may not be counted toward fulfilling requirements of courses in the major. *Prerequisites: Education 330, senior or graduate standing and admission to the teacher credential program.*

501. SEMINAR IN BIOCHEMISTRY AND MOLECULAR BIOLOGY

An interdisciplinary seminar treating such topics as protein structure and function, biochemical catalysis, intermediary metabolism and macromolecular synthesis. Emphasis is on the study of original research papers. May be repeated for credit. *Prerequisites: Chemistry 436, 437 or Biology 400 or consent of instructor.* (2½ units)

505. ADVANCED DEVELOPMENTAL BIOLOGY

An in-depth survey of several areas of current interest in plant and animal development. Emphasis on analysis and criticism of experimental design. Lecture only. *Prerequisites: Biology 440; Biology 400 or Chemistry 437.*

522. THE GENETICS AND ECOLOGY OF POPULATIONS

Genetic and ecological mechanisms influencing the development, maintenance and evolution of populations. Lecture only. *Prerequisite: Biology 423.* Recommended: Biology 450.

541. COMPARATIVE ENDOCRINOLOGY

Consideration of the endocrine control of metabolism, reproduction, differentiation, and the role of endocrines in the adaptation of selected invertebrates and vertebrates. Lecture and six hours of laboratory. *Prerequisite: Biology 424 and Chemistry 226 or 323.* (6 units)

542. NEUROSCIENCE

An integration of the basic principles of neurophysiology and psychobiology. Information transmission at various levels in the organism. Interpretation of behavioral correlates. Lecture only. (Also offered as Psychology 542. Students may not receive credit for both.) *Prerequisites: senior or graduate standing and consent of instructor.*

545. THE NATURE AND EVOLUTION OF ANIMAL BEHAVIOR

Interrelationship between the ecology and behavior of animals, with particular reference to evolutionary aspects. *Prerequisites: senior or graduate standing and consent of instructor.*

550. SCANNING ELECTRON MICROSCOPY

Application of scanning electron microscopy to biological problems. Subjects include theory, maintenance and use of the microscope, specimen preparation, darkroom procedures and interpretation of micrographs. Lecture, six hours of laboratory and independent study. *Prerequisite: consent of instructor.* (5 units)

570. PHYSICAL AND CHEMICAL LIMNOLOGY

Physical and chemical characteristics of lakes and streams, as related to the activities of the natural biota, environmental factors and the geological substratum. Lecture and six hours of laboratory. *Prerequisites: Biology 450 and Chemistry 217.* (6 units)

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595. INDEPENDENT STUDY

Laboratory and/or library research in selected areas in biology conducted under the direction of a faculty member. A total of six units in Biology 595 may be applied toward graduation. *Prerequisite: consent of instructor and department must be received no later than the advisement period preceding the quarter of enrollment.* (Credit to be arranged: 1 to 6 units)

600- level courses are open to postbaccalaureate and graduate students only.

620. ADVANCED TOPICS IN PLANT BIOLOGY

An in-depth consideration of selected areas of current study in plant biology. May be repeated for credit as topics change. (2½ units)

640. ADVANCED TOPICS IN NEUROSCIENCE

An in-depth consideration of selected areas of neurophysiology and psychobiology. May be repeated for credit as topics change. Lecture only. (Also offered as Psychology 640. Students may not receive credit for the same topic in both.) *Prerequisite: Biology 542 or Psychology 542.* (2½ units)

650. ADVANCED TOPICS IN GENETICS

An in-depth consideration of selected research areas in genetics. May be repeated for credit as topics change. *Prerequisite: consent of instructor.* (2½ units)

664. BIOSYSTEMATICS

Fundamental concepts of classification systems, biometric and experimental taxonomic procedures, nomenclature and systematic literature; both plant and animal materials used. Lecture only. *Prerequisites: Biology 423 and one taxonomy-based course; e.g. Biology 319, 331, 335, 342, 351, 357 or 464.* Recommended: Mathematics 150. (2½ units)

670. ADVANCED TOPICS IN ECOLOGY

Literature survey of specific topics related to community or ecosystem dynamics. May be repeated for credit as topics change. *Prerequisite: Biology 450 or equivalent.* (2½ units)

680. ADVANCED TOPICS IN EVOLUTION

Topics of current research interest in plant or animal evolution. May be repeated for credit as topics change. (2½ units)

690. GRADUATE SEMINAR IN BIOLOGY

Selected topics and reviews of current investigations in the fields of biology. Required of all graduate students in biology. May be repeated for credit as topics change. (2½ units)

698. EXTENDED ENROLLMENT

Independent study leading to completion of requirements (other than course work) for the master of science degree. Students enrolled in this course have full use of College facilities. *Prerequisite: advancement to candidacy and consent of department.* (0 units)

699. THESIS RESEARCH AND THESIS

Independent graduate research conducted under guidance of the major advisor and resulting in a thesis. May be repeated for a maximum of 9 units. *Prerequisite: advancement to candidacy.* A. (3 units) B. (3 units) C. (3 units)

CHEMISTRY

Accredited by the American Chemical Society

The Department of Chemistry provides: (1) undergraduate training in chemistry for students planning professional careers in chemistry and allied professions such as medicine, dentistry, pharmacy, health sciences and veterinary medicine and for those contemplating graduate work for advanced degrees; (2) appropriate courses for the teacher credential program; (3) fundamental chemical science courses required by students majoring in related fields such as physics and biology; and (4) an understanding of the achievements and contributions of chemistry as a science.

Requirements for the bachelor of arts degree: Chemistry 215, 216, 217, 321-322-323, 455, 456, 475, 590 and five additional upper-division units in chemistry; Physics 111-112 or 211-212; and Mathematics 200, 201 and 202.

Requirements for the bachelor of science degree: Chemistry 215, 216, 217, 321-322-323, 455, 456, 457, 475, 590 and 15 additional upper-division units in chemistry (one chemistry course must include laboratory work; an upper-division course in mathematics or physics selected in consultation with the department advisor may also be included); Physics 211-212-213; Mathematics 200, 201, 202, 203 and one applied mathematics course selected in consultation with the departmental advisor; foreign language (two terms of German or Russian or equivalent proficiency). A comprehensive examination covering the major field of study will be required in the senior year.

The Bachelor of Science in Chemistry satisfies the requirements for certification by the American Chemical Society.

Pre-professional students of medicine, dentistry or other science-based fields seeking a major in chemistry should refer to Page 66 of this catalog and consult with a departmental advisor.

Students interested in fields such as environmental science, environmental law, business and clinical chemistry can pursue these by following the minimum requirements of the major and appropriate electives.

Requirements for a minor in chemistry: Chemistry 215, 216, 217, 225-226 or 321-322-323, 455, and 456 or 475; Mathematics 200, 201 and 202; and Physics 111-112 or 211-212.

Departmental Honors: A graduating senior will be awarded departmental honors in chemistry after meeting the following requirements: at least a 3.5 average in all chemistry course work taken at the College with a minimum being five chemistry courses, at least a 3.0 average on the comprehensive examinations, and an A in Chemistry 595 or another demonstration of ability to do independent work in chemistry.

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100. CHEMISTRY IN THE MODERN WORLD

Examination of chemistry, its use by modern man and its value to contemporary society. Designed primarily for students with no high school background in chemistry. Lecture and two hours of laboratory.

205. FUNDAMENTALS OF CHEMISTRY I: GENERAL CHEMISTRY

Basic introduction to the concepts of chemistry, including the composition of matter and physical and chemical changes. Lecture and three hours of laboratory. Recommended preparation: one year of high school algebra.

206. FUNDAMENTALS OF CHEMISTRY II: ORGANIC CHEMISTRY

Introduction to the chemistry of organic compounds. Lecture and three hours of laboratory. *Prerequisite: Chemistry 205.*

207. FUNDAMENTALS OF CHEMISTRY III: BIOCHEMISTRY

Introduction to the principles of modern biological chemistry and to organic compounds of biological interest. Lecture and three hours of laboratory. *Prerequisite: Chemistry 206.*

215. INTRODUCTORY CHEMISTRY I: ATOMIC STRUCTURE AND CHEMICAL BONDING

The first of a three-course sequence in general chemistry and quantitative analysis. Topics in this course include atomic and molecular structure, chemical bonding, states of matter and solutions. Lecture and six hours of laboratory. Recommended preparation: one year of high school chemistry and three years of high school mathematics. (6 units)

216. INTRODUCTORY CHEMISTRY II: PRINCIPLES OF CHEMICAL REACTIONS

Chemical kinetics and equilibrium, thermodynamics, redox reactions and electrochemistry, and topics in inorganic, organic, biological and environmental chemistry. Lecture and six hours of laboratory. *Prerequisite: Chemistry 215 or consent of instructor.* (6 units)

217. INTRODUCTORY CHEMISTRY III: MODERN QUANTITATIVE ANALYSIS

Gravimetric and volumetric analysis, chemical equilibria, modern instrumental methods and radioanalytical techniques. Lecture and six hours of laboratory. *Prerequisite: Chemistry 216 or consent of instructor.*

225. ORGANIC CHEMISTRY I

Descriptive discussion of carbon compounds, including modern concepts of structure, reaction mechanisms and reactivity. Major emphasis is placed on organic compounds of biological interest. Lecture and six hours of laboratory. For nonchemistry majors only. *Prerequisite: Chemistry 216 or consent of instructor.* (6 units)

226. ORGANIC CHEMISTRY II

Continuation of Chemistry 225. Lecture and six hours of laboratory. *Prerequisite: Chemistry 225 or consent of instructor.* (6 units)

315. ENVIRONMENTAL CHEMISTRY

Introduction to the chemistry of water, soil and air pollution problems. Lecture and three hours of laboratory. *Prerequisites: Biology 100 or 202, Chemistry 206 or 216, and 225 or 321, or consent of instructor.*

321. PRINCIPLES OF ORGANIC CHEMISTRY I

Detailed study of organic molecules and their structures, reaction mechanisms, stereochemistry and synthesis. Lecture and six hours of laboratory. *Prerequisite: Chemistry 216 or consent of instructor.*

322. PRINCIPLES OF ORGANIC CHEMISTRY II

Continuation of Chemistry 321. Lecture and six hours of laboratory. *Prerequisite: Chemistry 321 or consent of instructor.*

323. PRINCIPLES OF ORGANIC CHEMISTRY III

Continuation of Chemistry 322, including special topics in heterocyclic compounds, fats, carbohydrates, and amino acids and proteins. Lecture and six hours of laboratory. *Prerequisite: Chemistry 322 or consent of instructor.*

392. SCIENTIFIC GLASSBLOWING

Principles and skills in the construction, modification and repair of scientific glass apparatus. May not be counted toward requirements for the major. (2 units)

436. BIOCHEMISTRY I

Chemistry of proteins, carbohydrates, lipids, and other classes of biomolecules; the kinetics, mechanism and structure of enzymes; the principles of bioenergetics; and the basic principles of metabolism. Lecture and three hours of laboratory. *Prerequisites: Chemistry 216, and 226 and 323.*

437. BIOCHEMISTRY II

Biochemical processes that yield and utilize energy: metabolism of carbohydrates, lipids, amino acids, purines and nucleic acid biosynthesis. Lecture and three hours of laboratory. *Prerequisites: Chemistry 216, 226 or 323, and 436 or consent of instructor.*

455. PHYSICAL CHEMISTRY I

Thermodynamics and the properties of solutions. Lecture and six hours of laboratory. *Prerequisites: Chemistry 216, Mathematics 202 and Physics 112 or 212 or consent of instructor.* (6 units)

456. PHYSICAL CHEMISTRY II

Phase equilibria, electrochemistry, transport properties, reaction rates and mechanisms, and quantum mechanics. Lecture and six hours of laboratory. *Prerequisite: Chemistry 455 or consent of instructor.* (6 units)

457. PHYSICAL CHEMISTRY III

Quantum and statistical mechanics, gases, theories of reaction kinetics, photochemistry and crystal structure. Lecture only. *Prerequisites: Chemistry 456, Mathematics 203 and Physics 213 or consent of instructor.* Physics 212 may be taken concurrently.

475. INORGANIC CHEMISTRY

Inorganic compounds and reactions. Special emphasis on group theory, structure, kinetics, and thermodynamic principles. Lecture and six hours of laboratory. *Prerequisite: Chemistry 455 or consent of instructor.* (6 units)

499. METHODS AND MATERIALS IN THE TEACHING OF CHEMISTRY

May not be counted toward fulfilling requirements of courses in the major. *Prerequisites: Education 330, senior or graduate standing and admission to the teacher credential program.*

500. TOPICS IN CHEMISTRY

Advanced lecture course on a subject such as: synthetic organic chemistry, theoretical organic chemistry, natural products chemistry, bio-physical chemistry or polymer chemistry. May be repeated for credit as topics change. *Prerequisite: Chemistry 455 or consent of instructor.* (2½ units)

545. ADVANCED ANALYTICAL CHEMISTRY

Principles and techniques of modern instrumental analysis, including spectrophotometry, spectroscopy, chromatography, X-ray analysis, mass spectrometry and potentiometry. Lecture and six hours of laboratory. *Prerequisites: Chemistry 226 or 323 and 456 or consent of instructor.* (6 units)

549. ADVANCED CHEMICAL INSTRUMENTATION

Individual study on advanced chemical instrumentation under the direction of a faculty member. May be repeated once for credit. *Prerequisites: Chemistry 323 and consent of department and instructor.* (Credit to be arranged: 1 to 2 units)

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566. THE LITERATURE OF CHEMISTRY

Introduction to the use of chemical information resources. Lecture only. *Prerequisite: Chemistry 226 or 323 or consent of instructor.* (2½ units)

568. HISTORY OF CHEMISTRY

Development of chemical knowledge from antiquity to present times. Lecture only. *Prerequisite: Chemistry 206 or 226 or 323 or consent of instructor.* (2½ units)

576. ADVANCED INORGANIC CHEMISTRY

Current developments in inorganic chemistry, including coordination chemistry, non-metals and metalloids. Lecture only. *Prerequisites: Chemistry 456 and 475 or consent of instructor.*

590. CHEMISTRY SEMINAR

Topics of current chemical interest, presented by students, faculty and guest speakers. May be taken once for credit toward the major requirements for graduation. *Prerequisite: Chemistry 323 or 455.* (1 unit)

595. INDEPENDENT STUDY

Research conducted under chemistry faculty supervision. A total of six units may be applied toward the major. *Prerequisites: consent of instructor and department on a standard form filed in advance of the quarter in which the course is to be taken.* (Credit to be arranged: 1 to 6 units)

CHILD DEVELOPMENT

The child development major focuses on the biological, psychological and sociological aspects of human development, through an interdisciplinary approach which draws its course offerings from the departments of psychology, sociology, anthropology, biology and education as well as from the field of ethnic studies. The major provides the important advantage of promoting a holistic approach to development that no single discipline can offer.

The major is designed specifically for persons who plan to enter occupations or professions that call for child development specialists. These include teachers, teaching assistants, day-care workers, playground and recreation supervisors, and other positions involving work with young children and their families. The program also provides academic preparation for graduate-level training in a number of child-related professions.

Students whose interests are in teaching need to familiarize themselves as well with the professional requirements for the multiple subjects teaching credential with a focus on early childhood education and the degree program in liberal studies. For further information on the child development major contact the Office of Academic Planning.

Requirements for the major: Biology 100 and 315; Psychology 100, 201, 358 and 384; Sociology 100 and 339; Anthropology 330; and four approved electives, at least two of which must be upper-division, chosen in consultation with an advisor, from the listing below. In addition, each student is required to complete five units of work in a practical setting involving children. This requirement may be met through Education 365 or its equivalent. One of the following is strongly recommended for students who plan to continue with graduate study: Mathematics 150, Sociology 210, Psychology 210 or Social Sciences 215.

Lower-division prerequisites:

BIOLOGY 100. TOPICS IN BIOLOGY

PSYCHOLOGY 100. INTRODUCTION TO PSYCHOLOGY

PSYCHOLOGY 201. DEVELOPMENTAL PSYCHOLOGY

SOCIOLOGY 100. THE STUDY OF SOCIETY

Upper-division core:

ANTHROPOLOGY 330. CROSS-CULTURAL CHILD-REARING PRACTICES

BIOLOGY 315. INTRODUCTION TO HUMAN EMBRYOLOGY

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PSYCHOLOGY 358. COGNITIVE DEVELOPMENT

PSYCHOLOGY 384. PERSONALITY AND SOCIAL DEVELOPMENT

SOCIOLOGY 339. SOCIALIZATION

Practicum:

EDUCATION 365. INTERNSHIP IN CHILD DEVELOPMENT

Approved electives:

ANTHROPOLOGY 100. INTRODUCTION TO ANTHROPOLOGY: HUMAN EVOLUTION

ANTHROPOLOGY 102. INTRODUCTION TO ANTHROPOLOGY: CULTURE AND SOCIETY

BIOLOGY 314. BIOLOGY OF HUMAN SEXUALITY

BIOLOGY 316. GENETICS OF MAN

BIOLOGY 321. EVOLUTION

EDUCATION 330. PSYCHOLOGICAL FOUNDATIONS OF EDUCATION

EDUCATION 530. PSYCHOLOGY AND EDUCATION OF EXCEPTIONAL CHILDREN

POLITICAL SCIENCE 450. POLITICAL SOCIALIZATION

PSYCHOLOGY 325. PSYCHOLOGY OF INFANCY

PSYCHOLOGY 327. PSYCHOLOGY OF ADOLESCENCE AND AGING

PSYCHOLOGY 391. PSYCHOPATHOLOGY OF CHILDHOOD

PSYCHOLOGY 426. EXPERIMENTAL PSYCHOLOGY: DEVELOPMENTAL

PSYCHOLOGY 526. MENTAL RETARDATION

SOCIOLOGY 305. SOCIOLOGICAL RESEARCH AND ANALYSIS

SOCIOLOGY 340. SOCIOLOGY OF THE FAMILY

SOCIOLOGY 341. MARRIAGE AND THE FAMILY AMONG BLACKS

SOCIOLOGY 342. THE CHICANO FAMILY

SOCIOLOGY 352. THE JUVENILE OFFENDER

SOCIOLOGY 354. DEVIANT BEHAVIOR

SOCIOLOGY 480. HUMAN GROWTH AND SOCIAL ENVIRONMENT

COMPUTER SCIENCE

At present the College does not offer a major program in computer science. The courses listed below are offered to support degree programs in areas such as administration, biology, chemistry, mathematics and physics as well as the certificate program in computers and programming, page 80. Further information about this certificate program can be obtained from the School of Natural Sciences.

100. COMPUTERS AND SOCIETY

Survey course providing an introduction to computers and their capabilities, limitations, uses and misuses, and revolutionary impact on modern society. (2½ units)

135. INTRODUCTION TO COMPUTERS AND BASIC

Introduces concepts of general interest to all programming languages with the use of the conversational-type language BASIC. No previous background is required. Appreciation and experience in the use of the time-sharing mode of a computer is gained by exercises from a wide variety of applications, many of them non-mathematical. (2½ units)

140. FORTRAN PROGRAMMING

Introduction to FORTRAN language in which the student will analyze, formulate, code, punch and debug a series of programs related to everyday life.

340. ADVANCED PROGRAMMING

Advanced topics in programming, assembly language, emphasis on the overall structure of programs. *Prerequisite: Computer Science 140.*

345. COBOL PROGRAMMING

Introduction to COBOL language in which the student will analyze, formulate, code, punch and debug a series of programs related to the business world. *Prerequisite: Computer Science 100, 135 or 140.*

350. COMPUTERS AND THEIR APPLICATIONS

Introduction to modern computers, their architecture and peripheral equipment, data representation and information processing. Typical applications of computers are reviewed. *Prerequisite: Computer Science 135, 140 or 345.* (2½ units)

440. DIRECTED STUDY IN COMPUTERS/PROGRAMMING

Individual projects or directed reading related to computers, computer systems, programming languages, compilers, minicomputers, microcomputers, time-sharing or other related topics. The selection, implementation, documentation and presentation of topics require the approval of the faculty advisor in charge of the course. May be repeated once for credit. *Prerequisite: Computer Science 135, 140 or 345.* (2½ units)

CRIMINAL JUSTICE

In a period of rapid and dramatic social change, a system of criminal justice must meet the needs of each individual citizen as well as the needs of complex social, economic and governmental institutions. The B.A. degree program in criminal justice was developed with these needs in mind and is appropriate for both career-bound preservice students and inservice personnel in law enforcement, probation, parole, corrections and related areas.

In addition, the program is designed to provide students with an appropriate academic background for continuing into graduate studies in criminal justice or pursuing graduate study in other areas such as law or criminology.

The criminal justice major is an interdisciplinary program with enough flexibility to permit each student to pursue his own interests. For example, students wishing to emphasize law enforcement may select particularly appropriate courses within the major and are encouraged to minor in administration, political science or sociology. Students directed toward probation, parole or corrections work are advised to select courses accordingly and to take electives in psychology or sociology.

Students transferring from community colleges may substitute selected administration of justice and corrections courses for Criminal Justice 101, 102 and 103 and may be given lower-division credit toward the major for two additional courses.

Requirements for the major: Criminal Justice 101, 102, 103; Sociology 210, 305, 350, 357, 358 and 359; eight additional courses to be selected as follows, in consultation with an advisor: two courses from among Administration 302, 350, 455, 456* or 380**; one course from among Philosophy 350, 355 or 465; two courses from among Political Science 328, 380**, 410 or 411; two courses from among Psychology 100, 385, 387, 390 or 456*; one course from among Sociology 352, 354, 356, 360, 410 or 430.

* Administration 456 or Psychology 456 may be used to complete one of the requirements in either discipline but may not be used to fulfill both.

** Administration 380 or Political Science 380 may be used to complete one of the requirements in either discipline but may not be used to fulfill both.

Requirements for a minor in criminal justice: Criminal Justice 101 and 102; Criminal Justice 103 or Sociology 357 or 358 with departmental consent; Sociology 350; and two courses from among Sociology 352, 357, 358 or 359.

Students must complete Criminal Justice 101, 102 and 103 before taking upper-division courses in the major. (With the prior consent of the department, a student may substitute Sociology 352 or 354 for Criminal Justice 103.) Students should find it advantageous to complete Sociology 210 and 305 before taking their remaining upper-division sociology courses.

101. INTRODUCTION TO CRIMINAL JUSTICE I

A survey of the history and philosophy of the criminal justice system in the United States with emphasis on systemic change, the development and content of criminal law and current developments in the structure of education and training in the system.

102. INTRODUCTION TO CRIMINAL JUSTICE II

Nature, structure and functions of the police, courts (including prosecution and defense) and corrections (institutional and community) and the interrelationships among those component parts.

103. CRITICAL ISSUES IN CRIMINAL JUSTICE

Consideration of various topics with regard to the criminal justice system including, but not limited to, issues in criminal evidence, arrest and detention, search and seizure, the ideology of crime control and criminal justice reform, and specific areas of crime (organized crime, political crime).

575. INTERNSHIP IN CRIMINAL JUSTICE

Supervised work and study in private or public organizations. May be repeated once for credit. Open only to majors. *Prerequisites: consent of instructor and department.*

590. SEMINAR IN CRIMINAL JUSTICE

Special topics in criminal justice. May be repeated for credit with consent of instructor as topics change. *Prerequisites: senior or graduate standing and consent of instructor.*

595. INDEPENDENT STUDY

In-depth research into special topics concerned with the criminal justice system utilizing readings, library and/or field research. *Prerequisites: consent of the coordinator of the program and the instructor.* (Credit to be arranged: 2 to 5 units)

DRAMA

(Theatre Arts)

Fun and hard work characterize the life of the drama student. A student's interest in the theatre arts may be oriented toward career goals or toward avocational goals. The curriculum provides a broad base for both by exploring every phase of those arts, and the plays provide opportunities to actually experience those arts. Many opportunities exist for working in student productions of reader's theatre and guerrilla theatre as well as in conventional theatre.

These experiences in the theatre arts are available to nonmajors as well as majors. Plays are cast from enrolled students except for an occasional resident artist.

Classes are designed to afford optimum individual attention. Professors in the department do not hesitate to present differing points of view, which encourages students to develop their skill to think independently and critically.

Requirements for the major: 10 five-unit upper-division drama courses, including 330, 340, 343; 441 or 443; three courses in dramatic literature (450 to 479). Also required are five practica (10 units of Drama 320 or equivalent). At least three practica must be distributed in areas other than acting. Transfer students may petition the department to make substitutions when they can provide evidence of competence in a specific area.

With the approval of an advisor, a student having specialized interests (for example, interpersonal communications) may develop an alternative program of study leading to the major. Such a program will require the same amount of course work as described above but with a different distribution.

Requirements for a minor in drama: six upper-division courses including Drama 330 and 340; 441 or 443; and two courses numbered 450 or above.

120. ORAL COMMUNICATION

Basic characteristics of human communication including such elements as self-awareness, verbal and non-verbal language, values and perception. These elements will be applied to various forms of oral communication settings, for example dyadic, serial, small group and public speaking.

210. ORAL INTERPRETATION OF LITERATURE

Introduction to the techniques of the oral performance of literature; emphasizes literary and aesthetic analysis and the oral presentation of poetry and prose.

230. STAGECRAFT

Theory and practice of stage production and design; including basic problems and techniques of costume construction, scenic construction and painting, elements of lighting.

250. THE ART OF THEATRE ARTS

Development of an awareness of such arts of the theatre as set, costume and lighting design; of acting and directing; of theatre management, organization; and of the history of theatre architecture and dramatic literature. The course will be arranged around a contemporary theatrical event.

300. ELEMENTS OF PUBLIC SPEAKING

Principles and techniques of public platform speaking. Analysis and performance.

302. ANALYSIS OF DRAMA

The literary experience through study of structure and theme in selected plays. (Also offered as English 302. Students may not receive credit for both.)

305. DISCUSSION AND DEBATE

Group discussion techniques and their implementation, leading to the basic principles of argumentative discourse, including the concepts of presumption, burden of proof, rhetorical forms of reasoning and evidence. Practice in applying these principles in discussion and debate.

320. THEATRE PRACTICUM

Application of theatre for an audience. Students will concentrate on acting, or technical production, for an intensive period. Open to all full-time students except freshmen. May be repeated for credit up to a total of ten units. No more than ten units for theatre practicum and music performance may be used to satisfy graduation requirements. (2 units)

325. FORENSICS PRACTICUM

Activity course to prepare students for intercollegiate forensics competition. No more than 10 units of credit may be awarded for practicum courses (Drama 320, 325). (2 units)

330. DESIGN

Consideration of the aesthetics and history of scenic, costume and lighting design and their influence on theatrical production. Study of the elements of line, color, light and stage composition; assigned projects requiring drafting of ground plans and elevations, and rendering of original designs. *Prerequisite: Drama 230 or 320 or consent of instructor.*

340. ACTING I

First steps in acting and mimetic expression. Development through class participation in planned exercises of self-expression and techniques in creating a role.

341. ACTING II

Styles in acting. Techniques in creating a role in period dramas requiring coordination in the internal and external manifestations of character. May be repeated once for credit with consent of instructor. *Prerequisite: Drama 340 or consent of instructor.*

343. ORAL INTERPRETATION FOR THE THEATRE

Techniques for the oral performance of drama, including literary and aesthetic analysis of plays.

415. COMMUNICATION AND PERSUASION

Techniques of oral persuasion and its relationship to attitude change: theory and practice. Cross-cultural communication and freedom of speech are also considered.

420. TECHNIQUES OF MASS COMMUNICATION

Studies of and experience with the techniques of mass media and their effects on society, emphasizing such forms as television, film and print.

441. DIRECTING

Development of the theory and practice of play directing. Student director gains experience by participation in directorial exercises. *Prerequisite: Drama 340 or consent of instructor.*

443. READERS THEATRE

Group techniques for oral performance and staging of literature. Includes the preparation and performance of scripts for readers theatre, choral theatre, story theatre and chamber theatre. *Prerequisites: Drama 210, 343, or consent of instructor.*

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445. THE CAMERA EYE

Film as a creative art medium. Such topics as the history of silent film, film since the '50's or television will be chosen. May be repeated for credit with consent of instructor.

450. CLASSICAL DRAMA

Development of comedy and tragedy in Greece and Rome. (Also offered as English 450. Students may not receive credit for both.)

451. MYSTERY TO MELODRAMA

Development of drama from medieval passion plays to late 19th century villain-hissing melodramas. Emphasis on either comedy or tragedy.

455. MODERN DRAMA I

European, British and American realism, beginning with variations of the 19th century well-made play. Emphasizes such playwrights as Ibsen, Chekhov, Shaw and O'Neill. (Also offered as English 455. Students may not receive credit for both.)

456. MODERN DRAMA II

European, British and American anti-realism, including various avant-garde movements. Emphasizes such playwrights as Brecht, Pinter, Wilder and Genet. (Also offered as English 456. Students may not receive credit for both.)

461. AMERICAN DRAMA

Survey of the American theatre and its drama (Dunlap to Odets) as they reflect the changing patterns of American society.

475. SHAKESPEARE I

Comedies and history plays. (Also offered as English 475. Students may not receive credit for both.)

476. SHAKESPEARE II

Tragedies and romances. (Also offered as English 476. Students may not receive credit for both.)

481. CREATIVE DRAMATICS

Experience with improvisational dramatic techniques which emphasize concentration, imagination and self-expression and are designed to develop creative leadership for parents, recreation leaders, elementary and secondary teachers.

499. METHODS AND MATERIALS IN THE TEACHING OF DRAMA

May not be counted toward fulfilling requirements of courses in the major. *Prerequisites: Education 330, senior or graduate standing and admission to the teacher credential program.*

510. STUDIES OF MAJOR FIGURES AND GENRES

May be repeated for credit with consent of instructor.

515. COMMUNICATION THEORY

Analysis of communication theories and research. Students will acquire a working knowledge of the communication process, an understanding of the underlying forces at work in given social settings and a familiarity with alternative explanations of communication outcomes.

520. THEATRE SEMINAR

Literature and theory relative to aesthetics, theatre history, drama and dramatic criticism. May be repeated for credit with consent of instructor.

555. INDEPENDENT STUDY

Research and analysis culminating in direction or design of a play for public performance.

EARTH SCIENCE

At the present time the College does not offer a major program in earth science or geology. The courses listed below are offered to permit an elective option in general education (Earth Science 101) and in support of other major programs.

101. PHYSICAL GEOLOGY

An introduction to the study of the earth, particularly the structure, composition, distribution and modification of earth materials and processes that shape the surface of the earth. Lecture and three hours of laboratory.

102. HISTORICAL GEOLOGY

Geologic history of the earth including the chronological development of continental features and an interpretation of the earth's history as reflected in rock and fossil records. Lecture and three hours of laboratory. *Prerequisite: Earth Science 101.*

301. GEOLOGY OF CALIFORNIA

Geologic evolution of California, its structural framework and geomorphic provinces. Lecture only. *Prerequisite: Earth Science 101.*

310. FIELD GEOLOGY

Field investigation of rocks and geologic structures and methods of geological observation and interpretation in a geologically noteworthy area such as Great Basin, Sierra Nevada, Transverse Ranges or selected national parks and monuments. May be repeated for credit as the topics change. *Prerequisite: Earth Science 101.* (2½ units)

ECONOMICS

Any time a choice must be made between alternatives—whether a personal decision to study math or play ball, or a governmental decision whether to spend a billion dollars on the space program or on schools—there are economic ramifications. Personal decisions sometimes are made without conscious awareness of costs and benefits involved in the alternatives. But business, government and social institutions must, if they are to use resources wisely, consciously consider economic factors in making decisions. The use of economic principles enables individuals and organizations to analyze problems in an orderly manner and to make sound choices about the economic desirability of a program or activity.

Training in economics, supplemented by course work in other disciplines, provides excellent preparation for particular careers in industry, government and many professions including teaching, law or consulting. Because economic problems are encountered everywhere and touch everyone's life, the study of economics also provides useful intellectual training for individuals who may be uncertain about their future plans.

Requirements for the major: Economics 100, 102, 300, 302, and at least six upper-division courses. With approval of a departmental advisor, up to two courses in related fields may be counted toward the upper-division course requirement in Economics. Mathematics 110 and Administration 210 or equivalent are also required. Mathematics 200 is highly recommended.

Requirements for a minor in economics: Economics 100, 102, 300, 302, plus two upper-division economics courses.

Departmental Honors: Departmental honors will be awarded upon graduation to students majoring in economics who have earned a 3.5 grade-point average in all economics courses attempted, completed at least half of all work in economics at this College and been recommended for departmental honors by economics faculty.

100. PRINCIPLES OF MACROECONOMICS

Introduction to the theory of national income determination with particular emphasis on employment and unemployment, price levels, monetary and fiscal policies, international economic issues and theories of economic growth.

102. PRINCIPLES OF MICROECONOMICS

Introduction to the economic principles which govern production, exchange, the pricing of goods, services and resources and the distribution of incomes in competitive and non-competitive markets.

300. INTERMEDIATE MACROECONOMICS

Analysis of the problems of measurement and determination of levels of national income, and investigation of macroeconomic policy issues including inflation and unemployment. *Prerequisite:* Economics 100.

302. INTERMEDIATE MICROECONOMICS

Detailed analysis of economic behavior of consumers and producers in competitive and non-competitive markets, and of the criteria for achieving optimality in the allocation and use of resources. *Prerequisite: Economics 102.*

305. INTENSIVE INTRODUCTORY ECONOMICS

An intensive introduction to micro- and macroeconomic concepts for graduate students. Not open to students with credit in Economics 100 and 102. *Prerequisite: graduate standing.*

351. ECONOMICS OF MINORITY GROUPS

Economic issues and problems confronting ethnic and racial minorities in the United States; investigation of methods for alleviating these problems.

360. ECONOMICS OF THE ENVIRONMENT

Economic causes and implications of air and water pollution, urban congestion, natural resource depletion and population growth; examination of the economic impacts of alternative forms of environmental control and protection.

370. THE AMERICAN ECONOMY

Development and structure of the American economy.

390. SELECTED TOPICS IN ECONOMICS

Examination of selected topics of current interest in economics. May be repeated for credit as topics change.

410. MONEY AND BANKING

Demand for money, creation and manipulation of the money supply, and the role of banking and other financial institutions in the United States in determining the level of employment, prices and international payments equilibrium. *Prerequisite: Economics 100.*

420. COMPARATIVE ECONOMIC SYSTEMS

Comparison of theories and forms of organization of major contemporary economic systems such as those found in command, market-socialism and predominantly free-enterprise economies. *Prerequisite: Economics 100.*

430. INTERNATIONAL ECONOMICS

Theory of economic growth through international specialization and exchange with emphasis on economic disturbances in international markets, mechanisms for adjustment, policies bearing on international trade and selected current issues. *Prerequisites: Economics 100 and 102.*

450. ECONOMIC DEVELOPMENT

Economic problems confronting developing countries; policies hypothesized to achieve desired rates of economic development in these areas.

460. LABOR ECONOMICS

Micro- and macroeconomic aspects of labor markets including the workings of labor markets in competitive and non-competitive markets, structure and causes of unemployment, incomes policies, and selected institutional topics including the economics of U.S. labor movements. *Prerequisite: Economics 102.*

475. PUBLIC FINANCE

Rationale for government actions in an economy which emphasizes private sector allocation; principles of taxation, theories of tax incidence, expenditure evaluation, government sources and uses of revenue, and government budgeting. (Also offered as Administration 475. Students may not receive credit for both.) *Prerequisite: Economics 102.*

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480. INTRODUCTION TO MATHEMATICAL ECONOMICS

Application of mathematical concepts and techniques to economic models of optimization by consumers and producers, to models of price determination and to the study of input-output techniques. *Prerequisites: Economics 102 and Mathematics 200.*

490. INTRODUCTION TO ECONOMETRICS

Various statistical methods of testing economic hypotheses. *Prerequisites: Economics 100, 102, Mathematics 110, and Administration 210, or equivalent.*

500. HISTORY OF ECONOMIC THOUGHT

Survey of the development of economic doctrines and analyses and concurrent intellectual and social history with emphasis on the ideas of landmark economists from Adam Smith to John Maynard Keynes. *Prerequisite: Economics 102.*

565. PROBLEMS IN PUBLIC FINANCE

Selected topics in public finance such as government sources and uses of revenue, expenditure evaluation and debt management. (Also offered as Administration 565. Students may not receive credit for both.) *Prerequisite: Economics 475 or Administration 475.*

590. SEMINAR IN ECONOMICS

Intensive study of some phase of economics. May be repeated for credit as subject matter changes and with consent of instructor.

595. INDEPENDENT STUDY

Investigation of special topics not covered by the department's curricular offerings. *Prerequisites: departmental approval of written proposal of project and consent of instructor.* (Credit to be arranged: 2 to 5 units)

EDUCATION

The School of Education offers course work designed to prepare students for a variety of careers in education. At the present time, the College is approved to offer the following credentials:

- Single subject credential for teaching a single subject in a departmentalized school (all grades),
- Multiple subjects teaching credential for teaching in a self-contained classroom (all grades),
- Multiple subjects teaching credential with emphasis in bilingual/cross-cultural teaching in a self-contained classroom (all grades),
- Multiple subjects teaching credential with emphasis in early childhood teaching in a self-contained classroom (all grades),
- Designated subjects teaching credential for technical, trade or vocational subjects,
- Administrative services credential,
- Pupil personnel services credential in counseling,
- Bilingual/cross-cultural specialist credential,
- Early childhood specialist credential,
- Reading specialist credential.

Plans are under way to offer a special education specialist credential; initial courses are being offered.

The school offers a program leading to the Bachelor of Vocational Education degree. Further information about this degree is provided on Page 218.

A Master of Arts degree is offered with options available in elementary education, secondary education, English, history, counseling, reading and school administration. An additional option in bilingual/cross-cultural education is under development. Inservice course work also is available to personnel currently employed in education or for those interested in learning more about the field.

Admission to the Teacher Education Program

Admission to the College must precede admission to the credential program. During the first week of every term, all new credential candidates (juniors, seniors and graduate students) must apply for admission to the School of Education. Special meetings are held for this purpose, with times and places announced in advance. Candidates may enroll in Education 330 (Psychological Foundations of Education) and Education 345 (Reading in the Elementary School) or Education 445 (Reading in the Secondary School) without being formally admitted to the program. Admission is based on the following criteria:

1. Three written recommendations, at least two from faculty members in the student's major department.
2. Interview by a member of the School of Education faculty.
3. Health clearance secured from the College Health Service.

- 4. Academic achievement.
 - a. Undergraduate candidates must possess a minimum 2.5 grade-point average in all college course work, in course work in the major field and in professional education.
 - b. Postbaccalaureate candidates must possess a minimum grade-point average of 2.5 in course work in the major field, in professional education and in the last 90 quarter units attempted.
- 5. Completion of an approved program in a major field or satisfactory completion of the required state examination.
- 6. A signed affidavit by the candidate indicating he has no criminal convictions which would preclude the issuance of a credential.

In addition, the following criteria are used: professional aptitude, personality and character, speech and language usage, and many-sided interests.

All course work taken at another college, or more than seven years ago, is subject to approval by an advisor in the School of Education.

One quarter in advance of the time the student intends to enroll in student teaching, the candidate must complete an application for student teaching. At that time, each applicant is reviewed in terms of all of the above criteria and, in addition, candidates must have completed the prerequisite course work in education, and be at least of senior standing.

Major

The multiple subjects teaching credential requires a student to complete satisfactorily an examination covering the following fields of study: English, humanities, social science, science and mathematics. Students who choose the liberal studies major on this campus, or an approved diversified major on another campus, do not need to take the examination. (Information on this program may be found on Page 173 of this Bulletin.)

The single subject teaching credential requires a student to complete an approved program of study or complete a required state examination. Approved fields of study and the corresponding degree program approved on this campus for the waiver of the state examination are:

<i>Single subject credential</i>	<i>Degree major</i>	<i>See page</i>
Art	B.A. Art	104
English	B.A. Drama	124
	B.A. English	141
Foreign language	B.A. French	151
	B.A. Spanish	153
Government	B.A. Political Science	199
History	B.A. History	164
Life science	B.A. Biology	109
	B.S. Biology	109
Mathematics	B.A. Mathematics (pending)	176
	B.S. Mathematics (pending)	176
Music	B.A. Music	180
Physical science	B.A. Chemistry (pending)	115
	B.S. Chemistry (pending)	115
	B.A. Physics (pending)	195
	B.S. Physics (pending)	195
Social science	B.A. Social Sciences	209

For further information on other majors, examinations and waivers, students should contact the School of Education.

Professional Requirements

Candidates electing the multiple subjects teaching credential with emphasis in early childhood teaching will take Education 331 (Growth and Development of the Young Child) or an approved equivalent course. They will also be required to take Education 342 (Curriculum and Methods for Early Childhood Education), and Education 365 (Internship in Child Development) which provides field work at the preschool level.

All other candidates for a teaching credential must complete Education 330 (Psychological Foundations of Education). These candidates for a multiple subjects teaching credential and candidates for a single subject teaching credential (except majors in art and music) must complete a course on the teaching of reading or pass a state examination. These courses are: Education 345 (Reading in the Elementary School) or Education 445 (Reading in the Secondary School).

The above two courses (or the passage of the examination) are prerequisite to student teaching. Students must apply for student teaching one quarter in advance of the time they intend to student teach and must be of at least senior standing. Student teaching for both credentials is a full-time assignment for two quarters, and no concurrent course work may be taken beyond the required methods courses.

Students seeking the multiple subjects teaching credential must register for Education 370 (Elementary Student Teaching I), 10 units, and Education 340 (Elementary Curriculum and Methods I), 5 units, during the first quarter and Education 371 (Elementary Student Teaching II), 10 units, and Education 341 (Elementary Curriculum and Methods II), 5 units, during the succeeding quarter.

Students working toward the multiple subjects credential with emphasis in bilingual/cross-cultural teaching substitute Education 344 (Curriculum and Methods for Bilingual/Cross-Cultural Education) in place of Education 341 in the above program. Student teaching assignments will be in classes which are part of bilingual programs in the cooperating school districts. An emphasis in bilingual/cross-cultural studies is recommended within the undergraduate liberal studies major for students seeking this credential.

In addition to the foundations and reading courses, candidates for the single subject teaching credential (secondary) must complete Education 440 (Secondary Curriculum and Instruction I), before entering student teaching. Secondary candidates are assigned to student teaching according to the public school semester schedule. The fall class teaches from September to February, the spring class from February to June. Candidates enroll in Education 470 and 471 (Secondary Student Teaching I and II) for two consecutive quarters. In addition, candidates must enroll in one course concurrently with student teaching: Education 441 (Secondary Curriculum and Instruction II) or a course in the candidate's discipline numbered 499 (methods and materials for teaching in a single subject field).

When a candidate has completed the requirements for the baccalaureate degree and two quarters of student teaching, he may apply for a preliminary credential. Within five years the candidate must complete a fifth year of study (45 quarter hours of upper-division work beyond the B.A.) and meet the health education requirement to obtain a full credential. Candidates are advised that they may fulfill the health education requirements as undergraduates by taking

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one of the following courses:

Health Science 330. School and College Health Programs

Health Science 336. Drug and Alcohol Use and Abuse

Health Science 426. Environmental Education: Solving School-Community Health Problems

Health Science 440. Family Health

Health Science 435. Child and Youth Development: Health Aspects.

The designated subjects teaching credential which requires approved prior work experience consists of a core of three courses. Education 501 is required for the part-time credential. Education 501, 502 and 503 are required for the full-time credential. In addition, certain "prescriptive electives" may be added to the curriculum of a given candidate in order to meet specific needs. These needs may be determined by the school district in which the candidate is employed or by the designated subjects coordinator.

330. PSYCHOLOGICAL FOUNDATIONS OF EDUCATION

Learning, motivation, evaluation, and human growth and development as applied to teaching.

331. GROWTH AND DEVELOPMENT OF THE YOUNG CHILD

Developmental characteristics of the young child, with special emphasis on family, child, preschool and school interaction.

340. ELEMENTARY CURRICULUM AND METHODS I

Introductory course in elementary curriculum and basic teaching techniques with emphasis on mathematics and science. *Prerequisite: Education 330.* Must be taken concurrently with student teaching.

341. ELEMENTARY CURRICULUM AND METHODS II

Introductory course in elementary curriculum and basic teaching techniques with emphasis on social science and language arts. *Prerequisite: Education 330.* Must be taken concurrently with student teaching.

342. CURRICULUM AND METHODS FOR EARLY CHILDHOOD EDUCATION

Principles, methods and materials of instruction appropriate for young children. *Prerequisite: concurrent enrollment in Education 365 or consent of the early childhood coordinator.*

344. CURRICULUM AND METHODS FOR BILINGUAL/CROSS-CULTURAL EDUCATION

Bilingual/cross-cultural teaching strategies and materials development. Emphasis on teaching language arts in Spanish, ESL and SSL teaching techniques, and development of units of study based on multicultural themes and concepts. *Prerequisite: Education 340.* To be taken concurrently with student teaching.

345. READING IN THE ELEMENTARY SCHOOL

Methods of teaching reading in the elementary school including skills in the diagnosis of reading difficulties, organization for instruction, selection of appropriate methods and use of instructional materials.

365. INTERNSHIP IN CHILD DEVELOPMENT

Supervised work and study in settings involving young children. *Prerequisite: completion of upper-division core courses in child development or consent of instructor.*

370. ELEMENTARY STUDENT TEACHING I

Full-time teaching in the public schools. To be taken concurrently with Education 340. Graded credit/no credit. *Prerequisite: admission to the program.* (10 units)

371. ELEMENTARY STUDENT TEACHING II

Full-time teaching in the public schools. To be taken concurrently with Education 341. Graded credit/no credit. *Prerequisites: satisfactory completion of Education 370 and/or consent of advisor.* (10 units)

440. SECONDARY CURRICULUM AND INSTRUCTION I

Introductory course in secondary curriculum and teaching methods with emphasis on instructional planning, strategies and evaluation, and classroom management. *Prerequisite: Education 330 or concurrent enrollment in Education 330.*

441. SECONDARY SCHOOL CURRICULUM AND INSTRUCTION II

Introductory course in secondary curriculum and teaching methods with emphasis on subject area materials, mediated materials, secondary curriculum and legal aspects of teaching as a profession. To be taken concurrently with student teaching. *Prerequisite: Education 330.*

445. READING IN THE SECONDARY SCHOOL

Techniques and procedures for improving and extending reading habits, skills and interests of students in secondary schools.

470. SECONDARY STUDENT TEACHING I

Full-time teaching in the junior or senior high school. Graded credit/no credit. *Prerequisite: consent of advisor.* (10 units)

471. SECONDARY STUDENT TEACHING II

Full-time teaching in the junior or senior high school. Graded credit/no credit. *Prerequisites: satisfactory completion of Education 470 and/or consent of advisor.* (10 units)

501. PRINCIPLES AND METHODS FOR TEACHING DESIGNATED SUBJECTS

Consideration will be given to course and lesson planning, instruction and evaluation, human relations and cultures, curriculum, course and program administrative procedures, student support services. *Prerequisites: admission to program and/or consent of coordinator of designated subjects.*

502. ADVANCED METHODS AND MANAGEMENT IN TEACHING DESIGNATED SUBJECTS I

Consideration will be given to laws pertaining to vocational education, youth leadership programs, budgeting, purchasing, student recruitment, selection and advisement for career education programs. *Prerequisite: Education 501 or consent of instructor or coordinator of designated subjects.*

503. ADVANCED METHODS AND MANAGEMENT IN TEACHING DESIGNATED SUBJECTS II

Consideration will be given to work experience programs, articulation, needs assessment, competency-based curriculum and evaluation, programs for the handicapped, programs for the culturally different. *Prerequisites: Education 501 and Education 502 or consent of instructor or coordinator of designated subjects.*

530. PSYCHOLOGY AND EDUCATION OF EXCEPTIONAL CHILDREN

Educational implications of physical, intellectual, social and emotional deviations among children and youth.

531. INTRODUCTION TO COUNSELING

Experience-based introduction to counseling and its techniques and to guidance programming. This course cannot be counted among the 45 units required in the school counseling option in the M.A. program. *Prerequisite: consent of instructor.*

532. TEACHING THE EDUCATIONALLY HANDICAPPED CHILD

Causes, symptoms, diagnoses and remediation of specific learning disabilities. Special emphasis given to planning and evaluating programs for the educationally or neurologically handicapped child. *Prerequisite: credential or teaching experience.*

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533. TEACHING THE CULTURALLY DIFFERENT: THE CHICANO

The Chicano's quest for equal educational opportunity. Methods and techniques for introducing Chicano culture and its contributions into the traditional areas of the school curriculum. Developing cultural awareness of teachers to assist them in relating to and motivating Chicano students.

534. TEACHING THE CULTURALLY DIFFERENT: THE BLACK AMERICAN

The Black American's quest for equal educational opportunity. Methods and techniques for introducing Black culture and its contributions into the traditional areas of the school curriculum. Developing cultural awareness of teachers to assist them in relating to and motivating Black students.

543. INDIVIDUALIZED INSTRUCTION

An individualized course on techniques and procedures for constructing materials, tracking students, classroom management, learning centers, record keeping and media involvement for individualizing instruction at all levels.

562. PROBLEMS IN ELEMENTARY CURRICULUM

(2 units)

563. PROBLEMS IN ELEMENTARY CURRICULUM

(3 units)

564. PROBLEMS IN ELEMENTARY CURRICULUM

(4 units)

565. PROBLEMS IN ELEMENTARY CURRICULUM

(5 units)

Advanced study of some phase of the elementary school curriculum. May be repeated for credit as subject matter changes and with consent of instructor. *Prerequisite: graduate standing or consent of instructor.*

566. SEMINAR IN EDUCATION

(2 units)

567. SEMINAR IN EDUCATION

(3 units)

568. SEMINAR IN EDUCATION

(4 units)

569. SEMINAR IN EDUCATION

(5 units)

Intensive study of topics and problems in secondary education, such as reading and team teaching. May be repeated for credit as subject matter changes and with consent of instructor. *Prerequisite: graduate standing or consent of instructor.*

595. INDEPENDENT STUDY

Special topics involving library and/or field research. *Prerequisites: consent of school and instructor.* (1–5 units)

600-level courses are open to postbaccalaureate and graduate students only.

600A. MASTER'S DEGREE PROJECT

Prerequisite: advancement to candidacy. (2½ units)

600B. MASTER'S DEGREE PROJECT

Prerequisite: advancement to candidacy. (2½ units)

601. EFFECTIVE COMMUNICATION IN SECONDARY CLASSROOMS

Exploration of various manifestations of social roles and expectations present in the typical secondary classroom. Examination of role theory research and its applicability in secondary classrooms. (2½ units)

602. SPECIAL TOPICS IN SECONDARY EDUCATION

Exploration, demonstration and application of issues and techniques in selected topics of current concern in secondary education (such as, inquiry-discovery teaching, simulations and games, alternate education programs, consumer education, team teaching, career education, teacher as counselor). May be repeated for credit as topics change. (2½ units)

610. RESEARCH METHODOLOGY IN EDUCATION

Principles of research design, methods of data collection and analysis.

620. EFFECTIVE CLASSROOM COMMUNICATIONS

Tools and techniques of effective communication in the classroom. Emphasis on reading strategies.

621. PSYCHOLOGY OF READING

Psychological processes of reading, various reading "models"; alternative strategies effective with standard and non-standard dialects. *Prerequisite: Education 620 or consent of instructor.*

622. SELECTION OF READING APPROACHES AND MATERIALS

Making critical judgments in selection of approaches and materials based on historical views of reading.

623. DIAGNOSTIC/PRESCRIPTIVE TEACHING IN READING

Diagnosing reading proficiency through personal interview, observation, and formal and informal oral and silent reading tests. Effective matching of strategies and materials with diagnosed problems and content. *Prerequisites: Education 620 and either 610 or 644 or consent of instructor.*

624. PSYCHOLOGY OF LANGUAGE, THOUGHT AND EXPRESSION

Important aspects of oral language acquisition and development; cuing systems; similarities and differences in oral and written language and implications for instruction.

625. READING CLINIC

Laboratory setting for administering diagnostic tests to clients from the community and prescribing follow-up programs in skills and content areas. *Prerequisites: Education 530, 620, 621, 622, 623.*

626. FIELD WORK FOR THE READING SPECIALIST

On-site experiences for candidate to develop competencies in the creation, supervision and administration of a variety of reading programs including state and federally funded projects. *Prerequisites: Education 530, 620, 621, 622, 623, 624, 625, 644.* Must be taken concurrently with Education 627. (2½ units)

627. REPORTING/COMMUNICATING WITH PARENTS AND STAFF

Strategies used by the reading specialist to communicate effectively with parents, staff supervisors and other administrators. Must be taken concurrently with Education 626. (2½ units)

628. SPECIAL PROBLEMS IN READING

Problems in planning and implementing school-wide and district-wide reading programs including methods of gathering data, analyzing data and writing programs. Final candidate assessment. *Prerequisites: Education 530, 620, 621, 622, 623, 624, 625, 626, 627, 644.*

630. RESEARCH IN TEACHING AND LEARNING

Survey of current research in teaching and learning.

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635. SEMINAR IN READING

Review of research, curriculum issues and instructional procedures. For experienced teachers only. *Prerequisite: credential or teaching experience.*

640. ELEMENTARY SCHOOL CURRICULUM

History, organization and operation of the elementary school; curriculum trends; newer practices in elementary education. *Prerequisite: credential or teaching experience.*

641. MEDIA AND STRATEGIES IN TEACHING

An assessment of media used in instruction with emphasis on teaching strategies and principles of learning.

643. CONSTRUCTION OF INSTRUCTIONAL MATERIALS

Various ways to design and produce instructional materials. Emphasis on the use of media to meet instructional objectives. Procedures for systematic evaluation of instructional materials.

644. PROBLEMS IN EDUCATIONAL ASSESSMENT

Teacher-made tests, standardized tests and other published instruments of use in assessing growth in the affective, psychomotor and cognitive domains.

650. EDUCATIONAL AND CAREER PLANNING

Theory of occupational choice, labor force data, and implementation and continuation of career advisement programs from elementary grades through high school. *Prerequisite: consent of instructor.*

652. DYNAMICS OF HUMAN BEHAVIOR

An experience-oriented study of personality development with attention to somatic, individual and societal processes; illustrative personality theories; application to counselor and student experiences and behaviors. *Prerequisite: Education 531 (grade of B minimum) or consent of instructor.*

653. THE PROFESSIONAL GUIDANCE WORKER

Ethics and legal aspects of counseling, especially applied to educational settings; utilization of community resources; consultation; in-service training. *Prerequisite: consent of instructor.*

655. CROSS-CULTURAL COUNSELING

Examination of diversity of cultural ethnic experiences and the nature of prejudice. Consideration of techniques found to be most effective in cross-cultural counseling. *Prerequisite: consent of instructor.*

656. COUNSELING THEORIES AND TECHNIQUES

Theories and techniques of counseling; application to educational settings; experiential orientation. *Prerequisite: Education 652 or consent of instructor.*

657. PRACTICUM IN COUNSELING

Supervised practice in counseling in a laboratory setting. *Prerequisites: Education 530, 650, 653, 655, 656, 677, or consent of instructor.*

658. FIELD WORK

Supervised field work for prospective school counselors in the public schools. Students must have the permission of the school district. Regular seminars or conferences required. *Prerequisites: Education 530, 650, 653, 655, 656, 657, 677, or consent of instructor. A. (2½ units) B. (2½ units)*

660. SEMINAR IN DEVELOPMENT AND LEARNING

Interdisciplinary approach in understanding cognitive, social and emotional development with emphasis on developmental patterns and implications for early childhood programs. Analysis of selected research and cross cultural studies. *Prerequisite: completion of introductory course in child development or equivalent.*

661. CURRICULUM DEVELOPMENT FOR EARLY CHILDHOOD EDUCATION

Process of developing continuous progress curriculum, procedures for gathering learner information related to level of achievement and interest, criteria for selection of appropriate activities and materials to achieve long range goals. Introduces early childhood education curriculum models.

662. ADVANCED CURRICULUM METHODS FOR EARLY CHILDHOOD EDUCATION

Language development in young children; emphasis on integrated curriculum through creative methods of teaching the arts, science, mathematics, social studies, reading and language arts.

663. ADMINISTRATION AND SUPERVISION OF EARLY CHILDHOOD EDUCATION PROGRAMS

Principles of supervision of early childhood programs including differentiated staffing, staff development, preparation of project proposals and coordination of total program requirements in public and/or private schools.

664. FIELD WORK IN EARLY CHILDHOOD EDUCATION

Supervised field work in early childhood education. Application of concepts of child development, curriculum coordination and administration in appropriate settings. Observation, practice and seminars. May be repeated for a maximum of 7½ units. *Prerequisite: consent of early childhood education coordinator.* (2½ units)

665. SEMINAR IN ADULT LEADERSHIP

Methods of composing, conducting and communicating with adult groups. Emphasis on techniques for developing interest and involvement; interpreting early education concepts to parents, paraprofessionals, staff, management and community agencies. (2½ units)

666. FOUNDATIONS OF EARLY CHILDHOOD EDUCATION

Philosophical points of view in early childhood education; how society historically treated the child and the educative process. Historical and philosophical background of present-day trends and issues in early childhood education. (2½ units)

670. INTRODUCTION TO SCHOOL ADMINISTRATION

Exploration of current administrative problems at the school and district level, self-assessment of the student's potential as a school administrator. Required of all candidates for the administrative services credential. Must be taken during the first quarter of residence. *Prerequisite: consent of instructor.* (2½ units)

671. ADMINISTRATION AND SUPERVISION OF THE ELEMENTARY SCHOOL

Principles and practices of elementary school administration, including personnel relations, instructional leadership, school organization, relationships with pupils and community. *Prerequisites: Administration 302 and Education 670.*

672. ADMINISTRATION AND SUPERVISION OF THE SECONDARY SCHOOL

Principles and practices of secondary school administration, including personnel relations, instructional leadership, school organization, relationships with pupils and community. *Prerequisites: Administration 302 and Education 670.*

675. LEGAL AND FINANCIAL ASPECTS OF EDUCATION

Consideration of current governance, legal and financial processes including local, state and national issues. Emphasis on recent laws and court cases affecting public schools. *Prerequisite: Education 671 or 672.*

676. SCHOOL COMMUNITY RELATIONS

Interaction with the community, including school boards, community groups and leaders of a variety of ethnic groups; relations with media. *Prerequisite: Education 671 or 672.*

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677. GROUP COUNSELING AND GUIDANCE

Theories and methods of facilitating counseling and guidance in groups; educational applications; experience-based. *Prerequisite: Education 652 or consent of instructor.*

678. COUNSELOR ASSESSMENT SEMINAR

Seminar involving assessment of counselor-trainee at culmination of program; research in and evaluation of counseling and guidance activities in education. *Prerequisites: concurrent enrollment in Education 658B and consent of instructor.*

680. SEMINAR IN COMPARATIVE EDUCATION

Comparison of educational theory and practice in certain selected countries.

685. METHODS AND MATERIALS FOR THE BILINGUAL/CROSS-CULTURAL CLASSROOM

Bilingual/cross-cultural teaching strategies; emphasis on methods of integrating English/Spanish into the instructional program. Assessment of bilingual materials; criteria for teacher-made materials; performance objectives, criterion-referenced curriculum and testing; use of classroom paraprofessionals. *Prerequisite: consent of instructor.*

690. FIELD WORK OR INTERNSHIP IN SCHOOL ADMINISTRATION

Supervised field experiences in all aspects of school administration. May be repeated for a maximum of 6 units. *Prerequisite: consent of instructor.* A. (2 units) B. (2 units) C. (2 units)

691. FIELD WORK IN BILINGUAL/CROSS-CULTURAL EDUCATION

Supervised teaching in the bilingual/cross-cultural classroom. Regular conferences or seminars required. *Prerequisite: consent of instructor.* A. (2½ units) B. (2½ units)

695. FOUNDATIONS OF EDUCATION

History and theory of education within the setting of American society. *Prerequisite: graduate standing.*

698. EXTENDED ENROLLMENT

Independent study leading to completion of requirements (other than course work) for the master's degree. Students enrolled in this course have full use of College facilities. *Prerequisites: advancement to candidacy and consent of school.* (0 units)

699. SECONDARY SCHOOL CURRICULUM

Study of the development of the American secondary school with emphasis on current and emerging patterns of organization and curriculum. *Prerequisite: graduate standing.*

ENGLISH

Everyone has his own reasons for studying literature but these personal feelings tend to take for granted one common notion: the experience of great poetry, fiction and drama makes a person more aware of himself and his world, more human.

The English department at California State College, San Bernardino is, like most college or university English departments, devoted mainly to the study of literature. The literature courses are arranged in different ways; some analyze a specific genre (poetry, fiction, drama); some treat a particular period (the sixteenth century, the Romantic period); some deal with an individual author, area or problem (Shakespeare, modern American poetry, black literature, fantasy).

The department offers additional courses in the history and structure of the language and in advanced composition. Courses in creative writing give students the opportunity to write poetry or fiction under the direction of an experienced writer. Courses in journalism give students the chance to develop professional skills under the direction of a working newspaperman.

English majors enter many careers, such as teaching, journalism, publishing, advertising, writing, business and industry. They may also enter graduate and professional schools for the further study of English or for training in such fields as library science and law. Students having the abilities the English major is designed to foster—perceptive reading, skillful writing and a developed sense of imagination and originality—are particularly well-equipped for the needs of a changing society.

Requirements for the major: 13 courses, of which 11 must be upper division. Required are two courses from English 120, 121, 140; two courses from English 301, 302, 303; two courses from English 401, 403, 406, 409, 412, 415; two courses from English 315, 325, 335; one course from English 430, 432, 436; one course from English 475, 476; one course from English 500, 505. The additional two courses may be chosen from any upper-division English courses or from upper-division courses in foreign literature or foreign literature in translation.

With the approval of the department, a student may develop an alternative program of study leading to the major. Such a program will require about the same amount of course work as described above, although with a different distribution. It also will require, in the senior year, completion of a comprehensive examination with a satisfactory score or a special writing project.

Students majoring in English who also wish to pursue a liberal studies major (diversified major) for elementary school teaching should consult with the department chairman.

The College now offers a Master of Arts in Education, with an option in English, for secondary teachers. Details on this graduate program may be secured from the department or the School of Education.

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Requirements for a minor in English: six courses, including English 170; a course in the study of language (English 500 or 505); a survey course in literature (English 110, 111, 120 or 121); an upper-division course in American literature (English 432 or 439); an upper-division course in Shakespeare (English 475 or 476); an upper-division course in literary analysis (English 301, 302 or 303).

100. INTENSIVE ENGLISH

Intensive work in writing fundamentals. To be graded A, B, C/No Credit.

101. FRESHMAN COMPOSITION

Analytical study of the language and structure of prose to help students develop a clear, mature and flexible expository style. Frequent writing required. *Prerequisite: satisfactory score on the English placement test or at least a grade of C in English 100.*

110. WORLD LITERATURE I

Readings in Oriental and continental European literature to the Renaissance (in English translation).

111. WORLD LITERATURE II

Readings in Oriental and continental European literature from the Renaissance to the contemporary period (in English translation).

120. ENGLISH LITERATURE I

Readings in English literature from the Middle Ages to Milton.

121. ENGLISH LITERATURE II

Readings in English literature from Dryden to the contemporary period.

140. SURVEY OF AMERICAN LITERATURE

Readings in major figures in American literature from the Puritans to the present.

170. STUDIES IN LITERATURE.

Analysis of the forms and content of literature.

300. ENGLISH WORKSHOP

An intensive refresher course in language fundamentals: diction, grammar and rhetoric. Emphasis on historic and cultural attitudes and their effects upon practical usage; concentration upon specific techniques. May not be counted toward fulfilling requirements in the major.

301. ANALYSIS OF POETRY

An approach to an understanding of the literary experience through a study of structure and theme in selected lyric poems.

302. ANALYSIS OF DRAMA

An approach to an understanding of the literary experience through a study of structure and theme in selected plays. (Also offered as Drama 302. Students may not receive credit for both.)

303. ANALYSIS OF PROSE FICTION

An approach to an understanding of the literary experience through a study of structure and theme in selected pieces of narrative prose.

313. INTRODUCTION TO CREATIVE WRITING

Workshop in imaginative writing. Discussion of student writing and exemplary works by established authors.

315. STUDIES IN LITERARY GENRES

Intensive study in a particular genre. May be repeated for credit as topics change.

320. CHILDREN'S LITERATURE

History and development of children's literature; emphasis on developing skills in analyzing, evaluating and selecting books for children.

325. STUDIES IN MAJOR LITERARY FIGURES

Intensive study in two or more literary figures. May be repeated for credit as topics change.

333. MYTH AND EPIC

Myths and epics of folklore and of classical literature, emphasizing relationship to later Western literature.

335. STUDIES IN THE NOVEL

Studies in the novel with emphasis on close reading of specific texts.

370. THEORY AND PRACTICE OF NEWSPAPER JOURNALISM

Practice in writing and editing will be emphasized. Consideration of the press in its social and historical context.

371. TOPICS IN JOURNALISM

Special topics such as advanced editing and reporting, or magazine writing. May be repeated for credit as subject matter changes and with consent of instructor. *Prerequisite: English 370 or equivalent professional experience.*

372. JOURNALISM PRACTICUM

Practical application of journalism skills. To be taken concurrently with, or subsequent to, English 370. May be repeated for credit for a total of not more than 6 units. (2 units)

385. INTRODUCTION TO LITERARY CRITICISM

The major issues in literary criticism considered in historical perspective.

394. WRITING SEMINAR

Advanced work in writing expository prose, with emphasis on the demands of the individual student's own discipline. Open to full-time students, except freshmen. May not be counted toward fulfilling requirements for the major. Credit cannot be given for both English 394 and English 396. (2½ units)

396. ADVANCED COMPOSITION

Advanced expository writing. Credit cannot be given for both English 396 and English 394.

399. COMMUNITY SERVICE PROJECT

Credit for performing academically related tasks in such agencies as governmental, social service and educational institutions. May be repeated for a total of 6 units. No more than six units of credit for Community Service Project courses may be applied toward degree requirements. Graded credit/ no credit. *Prerequisites: consent of department.* (Credit to be arranged: 1 or 2 units)

401. ENGLISH LITERATURE OF THE MIDDLE AGES

Lyric, drama, prose and verse narrative from the beginnings of English literature through Malory.

403. ENGLISH LITERATURE OF THE RENAISSANCE

Poetry, prose and drama (exclusive of Shakespeare) of the sixteenth century.

406. SEVENTEENTH CENTURY LITERATURE

English prose and poetry from Bacon through Milton.

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409. ENGLISH LITERATURE OF THE RESTORATION AND EIGHTEENTH CENTURY

Emphasis on Dryden, Pope, Swift and Johnson.

412. ROMANTIC PROSE AND POETRY

Major English romantics such as Blake, Wordsworth, Coleridge, Keats, Shelley and Byron.

415. VICTORIAN LITERATURE

Major writers of Victorian England.

430. AMERICAN LITERATURE I

Colonial and Federal American literature to the early nineteenth century.

432. AMERICAN LITERATURE II

Romantic movement in American literature.

436. AMERICAN LITERATURE III

Age of realism in American literature.

439. BLACK LITERATURE

Literature by and about the Black man. Emphasis on the contribution of Black writers to the American cultural heritage.

442. MODERN POETRY

Modern and contemporary poetry.

446. MODERN FICTION

Modern and contemporary fiction.

450. CLASSICAL DRAMA

Development of comedy and tragedy in Greece and Rome. (Also offered as Drama 450. Students may not receive credit for both.)

455. MODERN DRAMA I

European, English and American realism. (Also offered as Drama 455. Students may not receive credit for both.)

456. MODERN DRAMA II

European, English and American anti-realism. (Also offered as Drama 456. Students may not receive credit for both.)

475. SHAKESPEARE I

Comedies and histories. (Also offered as Drama 475. Students may not receive credit for both.)

476. SHAKESPEARE II

Tragedies and romances. (Also offered as Drama 476. Students may not receive credit for both.)

499. METHODS AND MATERIALS IN THE TEACHING OF ENGLISH

May not be counted toward fulfilling requirement of courses in the major. *Prerequisites: Education 330, senior or graduate standing and admission to the teacher credential program.*

500. GRAMMAR AND LINGUISTICS

An introduction to the attitudes, theories and techniques of modern grammar and linguistic science.

505. HISTORY OF THE ENGLISH LANGUAGE

Development of the English language from the beginning to the present.

511. THEORY AND PRACTICE OF RHETORIC AND COMPOSITION

Traditional and contemporary approaches to rhetoric, composition and style.

513. ADVANCED CREATIVE WRITING

Intensive writing workshop in one genre: poetry, fiction, autobiography or others. Emphasis will change from quarter to quarter. May be repeated for credit as subject matter changes. *Prerequisite: consent of instructor.*

522. INDEPENDENT STUDY IN WRITING

Project in advanced writing: fiction, non-fiction, poetry or drama. An outline of the project must be approved during the junior year and the completed project approved at least one quarter before graduation. This project may, upon special recommendation, substitute for the comprehensive examination. *Prerequisites: English 513 and departmental approval.*

550. APPROACHES TO LITERATURE

Study and practice of various critical approaches, such as the moral, formalistic, psychological, archetypal, with particular attention to their assumptions about the meaning and function of literature.

555. SPECIAL STUDIES IN LITERATURE

Independent study of selected literary figures or study in a special area of literary theory or history. Requires prior approval of department chairman and consent of instructor.

570. SEMINAR IN ENGLISH LITERATURE

May be repeated for credit with consent of instructor.

580. SEMINAR IN AMERICAN LITERATURE

May be repeated for credit with consent of instructor.

ENVIRONMENTAL STUDIES

To accomplish its principal objective of promoting an understanding of the interaction of man with his environment, this interdisciplinary degree program includes courses from the natural sciences, social sciences and humanities.

Major requirements from the natural sciences develop fundamental principles about the composition and functioning of the earth's eco-system—principles deemed essential to a sound working knowledge of the environment. Course offerings from the social sciences assess the impact of man upon the environment and the possibility of creating different environments. Questions of aesthetics and values, as they relate to the environment, are examined through courses in the humanities.

The program is designed for students who desire either to focus on a study of the environment as part of a broader liberal arts curriculum or to prepare for an environmentally related career. Professional opportunities for graduates include a wide range of tasks in public agencies responsible for developing and enforcing environmental controls, and in business, industry and nonprofit organizations which need qualified individuals to communicate environmental information and to assist in compliance with environmental regulations. Additional opportunities are available in conjunction with other programs of study, such as environmental law, environmental health, education and public administration.

Requirements for the major: Geography 103 (Physical Geography), Biology 202 (Biology of Populations), Physics 100 (A Survey of Physics) or Physics 111 (Basic Concepts of Physics I), Chemistry 205 (Fundamentals of Chemistry I) or Chemistry 215 (Introductory Chemistry I), Mathematics 150 (Elementary Statistics);

From the School of Natural Sciences: any three of the following courses: Biology 200 (Biology of the Cell), Biology 201 (Biology of Organisms), Biology 319 (Local Flora), Biology 370 (Symbiosis), Biology 423 (Genetics), Biology 450 (Ecology), Chemistry 206 (Fundamentals of Chemistry II), Chemistry 207 (Fundamentals of Chemistry III), Chemistry 216 (Introductory Chemistry II), Chemistry 217 (Introductory Chemistry III), Chemistry 225 (Organic Chemistry I), Chemistry 315 (Environmental Chemistry), Physics 112 (Basic Concepts of Physics II), Physics 300 (Electronics for Scientists), Mathematics 410 (Mathematical Modeling), Computer Science 140 (FORTRAN Programming), Computer Science 340 (Advanced Programming);

From the School of Social and Behavioral Sciences: any four of the following courses: Anthropology 475 (Cultural Ecology), Economics 360 (Economics of the Environment), Geography 350 (Conservation and Natural Resources), Geography 410 (Regional Planning and Resource Development), Geography 440 (Urban Geography), Political Science 342 (The Politics of Environment), Political Science 428 (Formulation of Public Policy), Social Sciences 321 (Urbanization and the Urban Environment), Sociology 420 (Population Problems),

Sociology 430 (Urban Sociology), Sociology 437 (Complex Organizations);

From the School of Administration: Administration 530 (Business and Society) may be taken in lieu of one of the four courses in the School of Social and Behavioral Sciences;

From the School of Humanities: any three of the following courses: Art 313 (Modern Art of the United States), Philosophy 350 (Ethics), Philosophy 360 (Political Philosophy), Philosophy 370 (Philosophy of Art and Criticism: Aesthetics), Philosophy 465 (Philosophy of Law);

Environmental Studies: three courses: Environmental Studies 300 (A Survey of Environmental Problems I), Environmental Studies 301 (A Survey of Environmental Problems II), Environmental Studies 555 (Independent Study).

300. A SURVEY OF ENVIRONMENTAL PROBLEMS I

An identification and evaluation of environmental problems; sources, effects and interrelationships. Special emphasis is placed on developing a critical attitude toward the recognition and assessment of environmental problems. *Prerequisite: basic core or equivalent or consent of the instructor.*

301. A SURVEY OF ENVIRONMENTAL PROBLEMS II

Perspectives on environmental problems. Topics include the aesthetic aspects of environmental problems; philosophical, cultural, political and socio-economic aspects of the environment; and alternatives and plans in coping with environmental problems. *Prerequisite: basic core or equivalent or consent of the instructor.*

555. INDEPENDENT STUDY

Special topics in environmental studies research. *Prerequisites: Environmental Studies 300 and 301, committee approval of a written proposal and consent of instructor.*

ETHNIC STUDIES

The College, as part of its ethnic studies program, offers a variety of subject matter options. These include the history major with options in Black studies or Mexican-American studies and the sociology major with options in Black studies or Mexican-American studies. In addition, a group of three ethnic studies courses may be selected for a supporting field in a social sciences major. Besides these, the College offers ethnic studies courses as electives.

A degree in history with an emphasis in either Black or Mexican-American studies should include the following: History 200, 201, 300, 301 and 490. The remaining five courses shall be selected by the student and advisor from the appropriate ethnic studies concentration.

The ethnic studies option in sociology requires Social Sciences 215 or Sociology 210 or equivalent; Sociology 100, 305, 310, 312; four courses in either Mexican-American studies or Black studies, and two additional sociology courses which fulfill requirements for the sociology major.

ANTHROPOLOGY 351. INDIANS OF NORTH AMERICA

ANTHROPOLOGY 352. INDIANS OF THE SOUTHWEST

ANTHROPOLOGY 451. AMERICAN INDIANS AND WHITE SOCIETY

ART 325. STUDIES IN MEXICAN AND CHICANO ART

ECONOMICS 351. ECONOMICS OF MINORITY GROUPS

EDUCATION 533. TEACHING THE CULTURALLY DIFFERENT: THE CHICANO

**EDUCATION 534. TEACHING THE CULTURALLY DIFFERENT:
THE BLACK AMERICAN**

ENGLISH 439. BLACK LITERATURE

HISTORY 331. BLACK HISTORY I

HISTORY 332. BLACK HISTORY II

HISTORY 333. BLACK HISTORY III

HISTORY 390. HISTORY OF MEXICO

HISTORY 391. CHICANO HISTORY

HISTORY 565. ETHNIC MINORITIES IN AMERICAN HISTORY

HISTORY 596. SEMINAR IN BLACK HISTORY

INTERDISCIPLINARY STUDIES 460. ASPECTS OF CHICANO CULTURE

MUSIC 350. MUSIC OF OTHER CULTURES

MUSIC 351. MEXICAN AND CHICANO MUSIC

MUSIC 352. AFRO-AMERICAN MUSIC

POLITICAL SCIENCE 350. POLITICS OF BLACK AMERICA

POLITICAL SCIENCE 351. THE CHICANO AND POLITICS

PSYCHOLOGY 337. PSYCHOLOGICAL DEVELOPMENT OF THE BLACK AMERICAN

PSYCHOLOGY 347. PSYCHOLOGICAL DEVELOPMENT OF THE CHICANO

SOCIAL SCIENCES 155. MINORITY GROUPS IN AMERICA

SOCIAL SCIENCES 220. INTRODUCTION TO CHICANO STUDIES

SOCIAL SCIENCES 250. INTRODUCTION TO BLACK STUDIES

SOCIAL SCIENCES 415. RESEARCH METHODS IN BLACK STUDIES

SOCIOLOGY 322. SOCIOLOGY OF THE GHETTO

SOCIOLOGY 341. MARRIAGE AND FAMILY AMONG BLACKS

SOCIOLOGY 342. THE CHICANO FAMILY

SOCIOLOGY 410. RACIAL AND CULTURAL MINORITIES

SOCIOLOGY 441. BLACK SOCIAL STRATIFICATION

SOCIOLOGY 442. CHICANO SOCIAL STRATIFICATION

SPANISH 440. MEXICAN LITERATURE

SPANISH 450. MEXICAN LITERATURE IN TRANSLATION



FOREIGN LANGUAGES AND LITERATURES

The Department of Foreign Languages and Literatures offers a wide variety of courses both in the foreign languages and in English. The principal objectives of the department's programs are to teach students to understand, speak, read and write the foreign languages offered; and to promote an understanding of foreign civilizations and an appreciation of their literatures. This background will prepare students to teach foreign languages and will provide language skills for those interested in positions such as librarian, interpreter, translator, foreign service officer and foreign trade specialist.

295. INDEPENDENT LANGUAGE STUDY

For the occasional student seeking the equivalent of a lower-division language course not offered in the regular classroom format. Course may be repeated for credit. *Prerequisite: consent of department.*

450. LITERATURE IN TRANSLATION

Significant masterpieces of a genre or a period read in English translation. No prerequisite. May be repeated for credit as topics change. When the topic of Foreign Languages 450 is Mexican literature, this course may not be taken for credit by a student who has received credit for Spanish 450.

499. METHODS AND MATERIALS IN THE TEACHING OF FOREIGN LANGUAGES

May not be counted toward fulfilling requirement of courses in the major. *Prerequisites: Education 330, senior or graduate standing, and admission to the teacher credential program.*

555. INDEPENDENT STUDY

Independent study of individual writers and genres. *Prerequisite: one 300-level course in the language under study or consent of instructor.*

French

Requirements for the major: 12 courses in French or their equivalent, including 301. One course in Humanities 460 (when the topic is France) and one course in Foreign Languages 450 or History 535 (when the topic is France) will be accepted toward the major.

Requirements for a minor in French: French 101, 102, 103, 200, 301, and one additional course at the 300 level.

Courses at the 101, 102 and 103 levels require one hour each week in the language laboratory in addition to the regularly scheduled classroom hours.

101. ELEMENTARY FRENCH I

Pronunciation, grammar, reading and conversation.

102. ELEMENTARY FRENCH II

Continuation of French 101.

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103. INTERMEDIATE FRENCH

Grammar, composition and conversation; discussion in French of literary texts. *Prerequisite: French 102 or equivalent.*

200. CONVERSATION AND COMPOSITION

Prerequisite: French 103 or equivalent.

210. INTRODUCTION TO LITERARY STUDY

Techniques of literary study and analysis. Explication de textes. *Prerequisite: French 103 or equivalent.*

Ordinarily, upper-division courses are conducted in French. Students enrolled in these courses will be evaluated on appropriate progress in both the command of the language and the subject matter.

301. ADVANCED FRENCH I

French phonology, with emphasis on improvement of the students' pronunciation. *Prerequisite: French 200 or equivalent.*

302. ADVANCED FRENCH II

Structure of the French language, with emphasis on improvement of the students' ability to write French. *Prerequisite: French 200 or equivalent.*

311. MASTERPIECES OF FRENCH LITERATURE I

Middle Ages and sixteenth century. *Prerequisite: French 210 or equivalent.*

312. MASTERPIECES OF FRENCH LITERATURE II

Seventeenth and eighteenth centuries. *Prerequisite: French 210 or equivalent.*

313. MASTERPIECES OF FRENCH LITERATURE III

Nineteenth century. *Prerequisite: French 210 or equivalent.*

340. ADVANCED CONVERSATION

Advanced practice of oral French stressing the reading and discussion of current topics in France. May be repeated for credit. *Prerequisite: French 200 or consent of instructor.* (2½ units)

399. COMMUNITY SERVICE PROJECT

Credit for performing academically related tasks in such agencies as governmental, social service and educational institutions. May be repeated for a total of six units. No more than six units of credit for Community Service Project courses may be applied toward degree requirements. Graded credit/no credit. *Prerequisite: consent of department.* (Credit to be arranged: 1 or 2 units)

420. SPECIAL TOPICS IN FRENCH LITERATURE

Topics such as the role of nature in French literature. May be repeated for credit. *Prerequisites: two 300-level courses in French literature or equivalent.*

German

The College does not offer a major program in German. Courses listed below will be offered as electives in support of other major programs.

Requirements for a minor in German: German 101, 102, 103, 202, 309, and one additional course at the 300 level.

Courses at the 101, 102 and 103 levels require one hour each week in the language laboratory in addition to the regularly scheduled classroom hours.

101. ELEMENTARY GERMAN I

Pronunciation, grammar, reading and conversation.

102. ELEMENTARY GERMAN II

Continuation of German 101.

103. INTERMEDIATE GERMAN I

Reading and discussion of modern German prose and poetry, grammar review, composition and conversation. *Prerequisite: German 102 or equivalent.*

202. GERMAN CONVERSATION

Basic conversational German stressing cultural aspects and their application to contemporary situations in German speaking environments. *Prerequisite: German 103 or consent of instructor.*

Ordinarily, upper-division courses are conducted in German. Students enrolled in these courses will be evaluated on appropriate progress in both the command of the language and the subject matter.

308. READINGS IN GERMAN LITERATURE

Selected literary genre or writer. *Prerequisite: German 103 or consent of instructor.*

309. ADVANCED GERMAN COMPOSITION

Practice in composition and short essay writing with emphasis on the development of good writing style and expressive vocabulary. Practical application in writing. *Prerequisite: German 103 or consent of instructor.*

310. ADVANCED GERMAN CONVERSATION

Advanced practice of oral German stressing the discussion of topics based in part on current newspapers and periodicals. *Prerequisites: German 103 and German 202 or consent of instructor.*

311. INTRODUCTION TO GERMAN LITERATURE

Survey course designed to introduce the student to the major literary movements and representative writers of German speaking cultures. *Prerequisite: German 103 or consent of instructor.*

399. COMMUNITY SERVICE PROJECT

Credit for performing academically related tasks in such agencies as governmental, social service and educational institutions. May be repeated for a total of six units. No more than six units of credit for Community Service Project courses may be applied toward degree requirements. Graded credit / no credit. *Prerequisite: consent of department.* (Credit to be arranged: 1 or 2 units)

Spanish

Requirements for the major: proficiency in Spanish equal to that of Spanish 103 or its equivalent*, Spanish 202 and 204 and nine upper-division courses. The nine in the upper-division must include Spanish 301, 302, 406 or 407, 410 or 411, and two courses at the 500 level; the remaining three courses may be chosen at the student's option, in consultation with an advisor, from courses in language, culture and civilization (Spanish 412, 414 and Humanities 460) and literature (Spanish 406, 407, 410, 411, 440, 450 [or Foreign Languages 450], 500, 503, 507, 508, 510 and 512).

Requirements for the minor: proficiency in Spanish equal to that of Spanish 103 or its equivalent*, and twenty additional units in Spanish, ten of which must be at the upper-division level.

Spanish majors are encouraged to broaden the scope of their studies by using some of their electives to take courses in French or German. Many students may desire to use their electives to prepare a minor or a second major. The department encourages such a program and is prepared to help each student plan.

** Entering students with previous training in Spanish, and those who are native speakers, should contact the department for information about advanced placement and credit by examination.*

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Courses at the 101, 102 and 103 levels require one hour each week in the language laboratory in addition to the regularly scheduled classroom hours.

101. ELEMENTARY SPANISH I

Fundamentals of pronunciation, structure and Hispanic culture designed to develop the ability to use and understand basic spoken Spanish.

102. ELEMENTARY SPANISH II

Continuation of Spanish 101.

103. INTERMEDIATE SPANISH

Continuation of Spanish 101 and 102 stressing conversation and acquisition of reading skills.

202. GRAMMAR AND COMPOSITION

Comprehensive review of the principles of Spanish grammar, emphasizing their application to composition. *Prerequisite: Spanish 103 or equivalent.*

204. INTRODUCTION TO LITERARY TEXTS

Techniques of literary study and analysis. Vocabulary development. *Prerequisite: Spanish 103 or equivalent.*

206. ADVANCED CONVERSATION

Advanced practice of oral Spanish stressing the discussion of current topics. Panel discussions, debates, short talks, skits. Students may not enroll in more than one section per quarter. May be repeated for credit. May not be counted toward fulfilling requirements in the major. *Prerequisite: Spanish 103 or equivalent. (2½ units)*

Ordinarily, upper-division courses are conducted in Spanish. Students enrolled in these courses will be evaluated on appropriate progress in both the command of the language and the subject matter.

301. PRACTICAL PHONETICS

In-depth study of the Spanish sound system. Oral practice and study of general principles of Spanish phonology and dialectology. *Prerequisite: Spanish 202 or 204 or equivalent.*

302. THEORY AND PRACTICE IN COMPOSITION

Extensive practice in composition and style. May be repeated for credit. *Prerequisite: Spanish 202 or 204 or equivalent.*

310. PRACTICAL SPANISH FOR THE HEALTH PROFESSIONS

Preparation of professionals in basic conversational Spanish with emphasis on the vocabulary, the expressions and the cultural attitudes related to health. No previous knowledge of Spanish required. May not be counted toward fulfilling requirements in the major.

311. PRACTICAL SPANISH FOR TEACHERS

Extensive practice in the Spanish likely to be useful in classroom and playground situations. Designed especially for teachers who know little or no Spanish. May not be counted toward fulfilling requirements in the major.

399. COMMUNITY SERVICE PROJECT

Credit for performing academically related tasks in such agencies as governmental, social service and educational institutions. May be repeated for a total of six units. No more than six units of credit for Community Service Project courses may be applied toward degree requirements. Graded credit/no credit. *Prerequisite: consent of department. (Credit to be arranged: 1 or 2 units)*

406. INTRODUCTION TO SPANISH LITERATURE I

Readings in sixteenth and seventeenth century Spanish literature from the Celestina to Calderon. *Prerequisite: Spanish 204 or equivalent.*

407. INTRODUCTION TO SPANISH LITERATURE II

Survey of Spanish literature and principal writers from Moratin to the contemporary period. *Prerequisite: Spanish 204 or equivalent.*

410. SPANISH-AMERICAN LITERATURE I

Survey of Spanish-American literature from the time of the Spanish conquest to the end of the nineteenth century. *Prerequisite: Spanish 204 or equivalent.*

411. SPANISH-AMERICAN LITERATURE II

Survey of Spanish-American literature from Modernismo to the present. *Prerequisite: Spanish 204 or equivalent.*

412. HISTORY OF THE SPANISH LANGUAGE

Evolution of Spanish from Vulgar Latin to its modern form, emphasizing the rules of phonetic change, linguistic influence of the various habitants of Spain and reading and discussion of selected medieval texts. *Prerequisite: Spanish 301 or equivalent.*

414. SPANISH LINGUISTICS

Analysis of the morphology and syntax of Spanish, emphasizing linguistic differences among Spanish, English and the Spanish spoken in the southwestern states of this country. *Prerequisite: Spanish 301 or equivalent.*

440. MEXICAN LITERATURE

Survey of the development of Mexican literature from 1520 to the present. *Prerequisite: Spanish 204 or equivalent.*

450. MEXICAN LITERATURE IN TRANSLATION

Critical examination of selected works of Mexican literature. Emphasis on the novel, drama, poetry and the essay. May not be taken for credit by students who have received credit for Foreign Languages 450, Literature in Translation: Mexico.

500. SPANISH GOLDEN AGE LITERATURE

Intensive study in the works of a particular writer or in a genre. May be repeated for credit as subject matter changes. *Prerequisite: two 400-level literature courses or equivalent.*

503. CERVANTES

Don Quijote. *Prerequisite: two 400-level literature courses or equivalent.*

507. NINETEENTH CENTURY SPANISH LITERATURE

Intensive study in the works of a particular writer or in a genre. May be repeated for credit as subject matter changes. *Prerequisite: two 400-level literature courses or equivalent.*

508. TWENTIETH CENTURY SPANISH LITERATURE

Intensive study in the works of a particular writer or in a genre. May be repeated for credit as subject matter changes. *Prerequisite: two 400-level literature courses or equivalent.*

510. SPANISH-AMERICAN NOVEL

Intensive study in the works of a particular writer or in a genre. May be repeated for credit as subject matter changes. *Prerequisite: two 400-level literature courses or equivalent.*

512. SPANISH-AMERICAN POETRY

Intensive study in the works of a particular writer or in a genre. May be repeated for credit as subject matter changes. *Prerequisite: two 400-level literature courses or equivalent.*

GEOGRAPHY

Geography is concerned with the spatial variations and interrelations of the natural and cultural features of the earth. Geographers study the earth primarily as the home of man. As an approach to knowledge, geography forms an interdisciplinary bridge between the physical and cultural worlds, examining both man and his environment. As a synthesizing discipline, geography is an especially attractive major for liberal arts and science students. Its body of theory and methodologies provides an analytic technique applicable to a wide range of questions. For students planning to terminate their formal education with a bachelor's degree, it also provides both the regional and world perspective required of responsible citizens. For the same reasons, geography is especially valuable for those who plan to do graduate work. Geography offers job opportunities in teaching, business, government, armed forces, conservation and water resources, planning and market research, and international organizations.

The geography major involves a two-track system, Track A and Track B. Requirements for all majors include the following core: Geography 100, 103, 420, 450 and one area studies course.

Track A requires that students take, in addition to the core, five upper-division courses in geography. Only one of these courses may be drawn from the area studies group.

Track B requires that students take, in addition to the core, five upper-division courses in geography and/or related disciplines. These courses, selected in consultation with an advisor, must be from one of the following areas of study: urbanization, industrialization, modernization or area studies.

Requirements for a minor in geography: six courses in geography including the series 100, 103, 420. The remaining three courses can be chosen from any of the upper-division geography offerings with the restriction that only one can be an area study.

100. INTRODUCTION TO GEOGRAPHIC STUDIES: HUMAN DEVELOPMENT AND SETTLEMENT

Analysis of human society as expressed through man's occupancy and utilization of the land.

103. PHYSICAL GEOGRAPHY

Systematic approach to the physical environment of man stressing the relationships between the atmosphere, land, life forms and water. Lecture and laboratory.

301. CARTOGRAPHY

Provides students with necessary drafting skills to construct maps, charts and graphs as well as training in map interpretations. *Prerequisite: consent of instructor.*

302. GEOGRAPHY OF CALIFORNIA

Systematic and regional study of California geography stressing general geographical concepts to explain sequential human settlement patterns in relation to the natural environment.

303. AREA STUDY: ANGLO-AMERICAN

Regional analysis of socio-economic development and environmental problems.

309. AREA STUDY: SOVIET UNION

Regional analysis of socio-economic development and environmental problems.

321. AREA STUDY: LATIN AMERICA

Regional analysis of socio-economic development and environmental problems.

330. WORLD REGIONAL GEOGRAPHY

Survey of major regions of the world using general geographical concepts (physical, cultural, political and economic) to explain human activities in relation to natural environments. A. Developed Nations (2½ units) B. Less Developed Nations (2½ units)

340. HISTORICAL GEOGRAPHY

Concepts and methods of analyzing the sequential patterns of human occupancy. Illustrated with case studies.

350. CONSERVATION AND NATURAL RESOURCES

Principles of resource utilization and ecology as they involve human development and politico-economic policy.

360. CLIMATE AND VEGETATION

Climate and vegetation, and the interrelationships between the two including the consideration of atmospheric processes significant for understanding regional patterns of distribution.

370. SOILS AND LANDFORMS

Physical and cultural processes that produce soils and landforms, their areal distributions and interrelationships, including plate tectonics.

380. POPULATION GEOGRAPHY

Spatial distribution and redistribution of population; interrelationships between population and the environment, including techniques of analysis.

410. REGIONAL PLANNING AND RESOURCE DEVELOPMENT

Application of concepts of location, spatial organization and spatial interaction to regional planning and resource development.

420. GEOGRAPHY OF ECONOMIC ACTIVITY

Analysis of concepts of location, interaction and regionalization as they apply to economic activity. Special emphasis on economic growth and modernization.

440. URBAN GEOGRAPHY

Description and classification of cities, analysis of their distribution, and a study of the external and internal relations of urban areas.

450. DEVELOPMENT OF GEOGRAPHIC THOUGHT

Changing ideas and methods of geographic analysis.

550. SEMINAR IN GEOGRAPHY

Intensive study of some phase of geography. May be repeated for credit with instructor's consent.

555. INDEPENDENT STUDY

575. INTERNSHIP IN GEOGRAPHY

Supervised work in public or private organizations emphasizing practical applications of geographic concepts. May be repeated once for credit. Graded credit/no credit. *Prerequisites: consent of instructor and department.*



Health science major teaches nutrition to kindergartners



HEALTH SCIENCE

Students interested in personal growth, community service, intellectual stimulation and professional career opportunities in the health and environmental fields may find the major in health science a method to achieve these goals.

The Department of Health Science and Human Ecology emphasizes an ecological approach to health and attempts to provide students with the tools necessary to understand factors contributing to the promotion of general health and well-being and to the prevention of illness.

A Bachelor of Science in Health Science is appropriate for students preparing to become health professionals or desiring to work in environmental protection agencies, private businesses or industrial hygiene and safety. The program also is designed to provide a career ladder opportunity for persons currently engaged in health and environmental occupations or preparing for graduate work in public health, social or natural sciences.

The department offers a blend of traditional and modern approaches to education and career development in the health science field. It encourages multidisciplinary orientation, community interaction and a social outlook, while providing an appropriate grounding in the natural sciences. In their senior year, students spend time in community agencies, such as health departments, hospitals, industrial plants, environmental improvement agencies and consumer affairs offices; thus combining theory and practice.

Pre-professional students of medicine, dentistry, veterinary medicine or other science-related fields seeking a major in health science should refer to Page 66 of this bulletin and consult with a department advisor.

Students interested in fields such as health or environmental law, clinical chemistry, business, health physics, or any other academic discipline should complete the minimum requirements of the major and select appropriate electives in consultation with a department advisor.

Requirements for the major: Biology 100 or 202, 220 and 222; Mathematics 150; Chemistry 205 or 215, 206 or 216 and 207 or 217 or 225 or 321; Physics 100 or 111 or 211; Health Science 120, 352, 354, 356, 366, 371, 451, 470, 496, 497A, 497B and 15 units of health science electives.

The environmental health component of the curriculum is approved by the Committee on Sanitarian Standards and Environmental Health Programs of the California State Department of Health. Students preparing themselves to be eligible for admittance to the state registration examination must be certified by a department advisor that they meet the following specific curriculum: Health Science 120, 352, 353, 354, 356, 366, 371, 372, 400, 451, 458, 496, and 497A and B; Biology 100 or 202; Biology 220; Biology 222; Mathematics 101 or 110; Mathematics 150 or 350; Chemistry 215 and 216; Chemistry 225 or 321 or 206; Physics 111 and 112; English 101 or Drama 120. Students who wish to obtain the Bachelor of Science in Health Science and prepare themselves for the state

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registration examination as well, must complete the requirements of the major plus such additional courses as listed above.

Departmental Honors: A graduating senior will be awarded departmental honors in health science after meeting the following requirements: at least a 3.5 average in all health science courses taken at California State College, San Bernardino; at least a 3.0 average overall; and an A in Health Science 595 or another clear demonstration of ability to do independent work in health science.

Requirements for a minor in health science: Health Science 120, 352, 451 and 15 units of upper-division health science courses selected in consultation with an advisor.

120. HEALTH AND SOCIETY: AN ECOLOGICAL APPROACH

Nature and function of health in society through study of the fundamental concepts of living systems and their implication on the processes of health and illness in the human organism. Major health problems are analyzed to contribute to the student's understanding of his role as an individual and as a member of the community. Lecture and three hours of laboratory.

200. MEDICAL TERMINOLOGY

Study of prefixes, roots and suffixes commonly encountered in medicine, leading to an ability to define unfamiliar words. Also included are common medical abbreviations and symbols. (2½ units)

300. THE HISTORY OF MEDICINE AND PUBLIC HEALTH

Historical factors involved in the development of human understanding of the disease processes and concepts, including a consideration of disease in a historical context. Medical, public health institutions and the contributions of early health workers are examined.

330. SCHOOL AND COLLEGE HEALTH PROGRAMS

Philosophical framework, organization, administration and legal aspects of school health with particular attention to the roles of the teacher and the school nurse. Factors contributing to a healthful and safe school environment and their interrelationship to health services and instruction. *Prerequisite: Health Science 120.*

336. DRUG AND ALCOHOL USE AND ABUSE

Analysis of factors influencing human use or abuse of drugs, alcohol and other substances and their effects on the health and well-being of the individual, family and society. (2½ units)

337. SPECIAL TOPICS IN DRUG AND ALCOHOL USE

In-depth analysis of selected problems in the use and misuse of drugs. May be repeated for credit as topics change. *Prerequisite or corequisite: Health Science 336.* (2½ units)

340. DISEASES OF MAN

Origins, causes and effects of the diseases of greatest consequence to the majority of mankind. A historical perspective including early fundamental advances in medicine and the concept of disease.

351. FOODS, NUTRITION AND HEALTH

Usage of foods and the nutritional status of man as an indicator of prevailing social and ecological factors; principles of nutrition applied to public health; contemporary food trends such as health foods; diverse effects of malnutrition and hunger on the individual and society.

352. ENVIRONMENTAL HEALTH I

Relationship of the physical, chemical and biological environments to man. Methods of assessment, evaluation and control of environmental aspects related to medicine and public health. Principles of public health engineering, environmental planning and preparation of environmental impact studies. *Prerequisite: completion of lower-division required core or consent of instructor.*

353. ENVIRONMENTAL HEALTH II

Present environmental and occupational health standards. Methods of testing and surveying residential, recreational and work environments. Laboratory and field experience in measuring the quality of air, water and food. Measurement and prevention of noise pollution and occupational health hazards. *Prerequisite: Health Science 352 or consent of instructor.*

354. CONSUMER PROTECTION, HEALTH AND ENVIRONMENTAL LAW

Legal basis for health practice and environmental regulation. Interface between man's technological abilities and his functions as a citizen-consumer. Roles of Food and Drug Administration, Consumer Product Safety Commission, Department of Agriculture and state and local health departments in protection of the consumer. (2½ units)

356. HOUSING AND INSTITUTIONS

Basic health principles and environmental quality considerations associated with housing and institutions (for example, health care, educational, penal). Relationship of housing quality to physical, socio-economic and ethnic factors and their influence on health. (2½ units)

361. PRINCIPLES OF ACCIDENT PREVENTION

Ecological and medical aspects of accident prevention in residential, work, educational, medical and recreational environments. Legal aspects and governmental organizations involved in accident prevention. (2½ units)

362. PRINCIPLES OF NUTRITION

Study of carbohydrates, fats, proteins, vitamins and minerals, their metabolic interrelationship and their role in normal human nutrition. Methods of assessing nutritional requirements during different stages of the life cycle. *Prerequisite: a course in organic chemistry or consent of instructor.*

366. OCCUPATIONAL HEALTH AND THE WORK ENVIRONMENT

Identification, evaluation and control of hazards prevailing in the work environment. Factors affecting man in his working environment. Safety and health legislation. Field trips to selected industries. (2½ units)

370. DIET AND DISEASE

Role of dietary modifications in prevention and treatment of pathological conditions in man. *Prerequisite: Health Science 351 or 362 or equivalent.* (2½ units)

371. ORGANIZATION AND FUNCTION OF COMMUNITY HEALTH SERVICES

Consideration and comparison of traditional and current programs in official and voluntary health agencies.

372. ENVIRONMENTAL ADMINISTRATION AND ENVIRONMENTAL IMPACT REPORTING

Principles and procedures of environmental health administration, emphasizing the role of the government and the citizen. Review of federal, state and local legislation and guidelines essential in preparing an environmental impact report.

374. BASIC AUDIOMETRY AND HEARING PROBLEMS

Examination of the anatomy and physiology of the auditory mechanism. Nature of the acoustic stimulus, hearing disorders, problems of the hard of hearing and pure-tone audiometry.

376. PRINCIPLES OF OCCUPATIONAL SAFETY AND HEALTH

Critical analysis of methods of standard setting and contemporary occupational safety and health regulations. Methods of assessing hazards and protecting the health of the worker. *Prerequisite: Health Science 366 or consent of instructor.*

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399. COMMUNITY SERVICE PROJECT

Credit for performing academically related tasks in such agencies as governmental, social service and educational institutions. May be repeated for a total of six units. No more than six units of credit for Community Service Project courses may be applied toward degree requirements. Graded credit/no credit. *Prerequisite: consent of department.* (Credit to be arranged: 1 or 2 units)

400. LAND USE: ENVIRONMENTAL HEALTH FACTORS RELATED TO NOISE, AIR OR WATER

Planning and environmental health aspects of land use with special reference to factors significant in an environmental impact report. Every time course is offered, one topic (noise, air or water) is discussed in depth and in relation to other topics. May be repeated for credit as topics change. (2½ units)

421. COMMUNITY MENTAL HEALTH

Mental health care delivery system with emphasis on a community approach to prevailing problems and issues. Methods of evaluating community and school mental health education programs; survey of available resources.

425. HEARING CONSERVATION AND NOISE MEASUREMENT

Principles of audiology and noise measurements and their application to environmental and industrial hearing conservation programs. (2½ units)

426. ENVIRONMENTAL EDUCATION: SOLVING SCHOOL-COMMUNITY HEALTH PROBLEMS

Techniques involved in health and environmental teaching and development of methods and materials. Factors considered in solving the school and community health problems and methods of encouraging school-community interaction. This course conforms with the State Framework for Education in the Health Sciences. (2½ units)

435. CHILD AND YOUTH DEVELOPMENT: HEALTH ASPECTS

Health needs and problems of the school-age child; concepts of appraisal, services and healthful environment. This course conforms with the State Framework for Education in the Health Sciences.

440. FAMILY HEALTH

Health aspects of the home and family, including qualifications for marriage, prenatal care, pregnancy, infant and maternal mortality, children's disease, home accidents, health plans for the family and health problems associated with old age. This course conforms with the State Framework for Education in the Health Sciences. (2½ units)

450. CONTEMPORARY ISSUES IN HEALTH CARE

Seminar in contemporary health care issues such as national health insurance, health care delivery, health care distribution, ethnicity and health care, and the medical industry. Knowledge from the core courses of health science is expected. *Prerequisite: senior standing or consent of instructor.*

451. PRINCIPLES OF EPIDEMIOLOGY

Distribution and dynamics of human health problems; principles and procedures used to determine circumstances under which disease occurs or health prevails. The broadened scope of epidemiology is examined through case studies and community health approach.

458. VECTOR CONTROL: FACTORS INFLUENCING ENVIRONMENT AND HEALTH

Identification and control of arthropods and other vectors of disease. Use of natural methods of control and chemical pesticides and their impact on environmental quality and health. Students enrolling in this course should possess some knowledge of biology and chemistry.

470. HEALTH BEHAVIOR AND COMMUNITY HEALTH EDUCATION

Factors influencing the community's response to public health programs and individual's health behavior. Analysis of community health problems, the process of decision-making and health education activities of governmental and non-governmental organizations.

474. ADVANCED AUDIOMETRY

Hearing tests, their objectives and uses for diagnostic and rehabilitative purposes. Techniques for administering auditory tests and the interpretation of their results emphasizing pure-tone audiometry. *Prerequisite: Health Science 374 or 425 or equivalent.*

476. INDUSTRIAL HYGIENE

Toxic chemicals in the industrial environment, their influence on human health and their relationship to occupational medicine and the administration of industrial hygiene programs. *Prerequisites: Health Science 366 and a basic chemistry course, or consent of instructor.*

496. PRE-FIELD STUDY PRACTICUM

Preparation for field study/research assignments. (2½ units)

497. FIELD STUDY: ACTION/RESEARCH IN HUMAN ECOLOGY AND HEALTH

Individual and team field studies and research in agencies with activity relevant to the student's career goals and interests. May be repeated for a maximum of 10 units. *Prerequisite: Health Science 496 or consent of instructor.* A. (5 units) B. (5 units)

595. INDEPENDENT STUDY

Research in special topics including library studies and/or laboratory work under the direction of a faculty member. *Prerequisites: consent of department and instructor.* (Credit to be arranged: 1 to 6 units)

HISTORY

History has been called the "extension of memory" which enables one to utilize past experiences. History, of course, is for the prospective teacher; it also provides excellent training for a future in law, journalism, politics or governmental careers. In short, history is for everyone.

The History Department has developed a major around a core of five courses which present a broad survey of American and European history and an introduction to the nature of historical study. To meet the remainder of the requirements for the major, the student may choose from a wide spectrum of courses.

Currently, the department consists of faculty specializing in the areas of American, European, Latin American and African history. Majors are also offered optional programs emphasizing Black or Mexican-American studies.

Requirements for the major: 10 courses in history, including History 200, 201, 300, 301 and 490, and at least five other upper-division courses in history. (Students who receive credit for both History 402 and 403 are excused from the requirement of History 300, and those who receive credit for both History 407 and 408 are excused from the requirement of History 301.) With the approval of the departmental advisor, up to two upper-division courses in related fields may be counted toward the upper-division course requirement in history. Students who are interested in Latin American or European history are encouraged to take a complete sequence of courses in the appropriate language.

Requirements for a minor in history: six courses, at least four of which must be on the upper-division level, to be selected in consultation with a history advisor.

A degree in history with an emphasis in either Black or Mexican-American studies should include the following: History 200, 201, 300, 301 and 490. The remaining five courses shall be selected by the student and advisor from the appropriate ethnic studies concentration; three of the courses must be in history. Courses specified will be listed as an option contract to be filed with the Dean of Academic Planning.

The College now offers a Master of Arts in Education, with an option in history, for secondary teachers. Details on this graduate program may be secured from the department or the School of Education.

200. UNITED STATES HISTORY TO 1877

Survey of the history of the United States from the colonial beginnings to 1877. This course meets the State Code requirement in United States history, constitution and American ideals.

201. UNITED STATES HISTORY, 1877 TO THE PRESENT

Survey of the history of the United States from 1877 to the present.

300. EARLY MODERN EUROPE, THE RENAISSANCE TO 1815

Institutions, culture, and political development of Europe from the Renaissance to the end of the Napoleonic Wars.

301. MODERN EUROPE, 1815 TO THE PRESENT

Institutions, culture, and political development of Europe from the Congress of Vienna to the present.

320. ANCIENT HISTORY I

Ancient world from the beginning of Egyptian civilization (c. 5000 B.C.) to the death of Alexander the Great (323 B.C.).

321. ANCIENT HISTORY II

Ancient world from 323 B.C. to the conversion of Constantine to Christianity (312 A.D.).

331. BLACK HISTORY I

Origin of sub-Saharan cultures and development of African civilizations through the 18th century; special emphasis on West Africa and the region's relationship to Black people of North America.

332. BLACK HISTORY II

Black people in America through World War I, including the experience of slavery, contributions of Blacks to American society and the effects of the attitudes and policies of the majority.

333. BLACK HISTORY III

Black people in America since World War I, with an emphasis on the changing nature of the Black community, the Civil Rights struggle and the rise of Black nationalism.

350. THE AMERICAN COLONIES 1607-1783

The thirteen colonies from European origins to the attainment of independence.

351. THE EVOLUTION OF AMERICAN DEMOCRACY, 1783-1840

Analysis of the development of American society, politics and economy during the Confederation, Federalist, Jeffersonian and Jacksonian Eras. This course meets the State Code requirement in United States history, constitution and American ideals.

354. CIVIL WAR AND RECONSTRUCTION

Background and causes of the Civil War and the problems of Reconstruction.

356. THE UNITED STATES, 1877-1917

Transformation of the nation between the end of Reconstruction and entrance into World War I.

358. MODERN AMERICA

Principal developments in American life since the first World War.

370. HISTORY OF CALIFORNIA

Political, economic and social development of California from Spanish times to the present. This course meets the State Code requirement in California state and local government.

390. HISTORY OF MEXICO

Survey of Mexican history from early Indo-American civilizations to the present.

391. CHICANO HISTORY

Mexican-Americans in the United States from the Colonial period to the present, with special emphasis on the Southwest.

402. RENAISSANCE AND REFORMATION

Principal political, economic, intellectual and religious developments in Europe from about 1300 to 1648.

403. THE AGE OF ABSOLUTISM AND ENLIGHTENMENT

The period from 1648 to 1789, emphasizing the development of the modern state, the new scientific movement and the growth of revolutionary ideas.

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407. THE AGE OF REVOLUTION AND NATIONALISM, 1789–1890

French revolution and political, social and intellectual changes in nineteenth century Europe.

408. THE DEVELOPMENT OF TWENTIETH CENTURY EUROPE, 1890–1945

Europe from the turn of the century period to the end of World War II.

409. EUROPE SINCE 1945

Analysis of major political, economic and cultural trends in Europe since World War II.

420. ECONOMIC HISTORY OF THE UNITED STATES

Economic history of the United States from the founding of the colonies to the present.

469. COLONIAL LATIN AMERICA

Survey of Spanish colonial system beginning with discovery of America and continuing to the independence period.

470. MODERN LATIN AMERICA

Survey of the development and interaction of modern Latin American institutions in the major nations of Central and South America.

480. SUB-SAHARAN AFRICA SINCE 1800

Survey of Sub-Saharan Africa in the 19th and 20th centuries. Emphasis on purely indigenous developments, response of African societies to European penetration and development of nationalism and Pan-Africanism.

490. THE STUDY OF HISTORY

Introduction to the nature of history through a consideration of the problems of historical knowledge and of the works of major historians of the past.

500. TUDOR AND STUART ENGLAND

Principal political, social, economic and religious developments of England from 1485 to 1688.

530. TOPICS IN MODERN COMPARATIVE HISTORY

Intensive study of some major topic in modern history from a comparative perspective (for example, diplomacy, military history, social and intellectual development). May be repeated for credit as topics change.

535. STUDIES IN EUROPEAN NATIONAL HISTORY

Historical development of individual European nations (for example, Germany, France, Great Britain, Russia, Spain) in the modern period. May be repeated for credit as topics change.

540. CONSTITUTIONAL HISTORY OF THE UNITED STATES

American constitutional development from English and European origins to the present day. This course meets the State Code requirement in United States history, constitution and American ideals. *Prerequisite: History 200 or 201, or Political Science 410 or consent of instructor.*

552. SOCIAL AND INTELLECTUAL HISTORY OF THE UNITED STATES

Topics in the history of American civilization including the development of American society, thought and culture. May be repeated for credit with consent of instructor.

555. INDEPENDENT STUDY

Special topics in historical research. *Prerequisites: departmental approval of a written proposal and consent of instructor.*

556. FOREIGN RELATIONS OF THE UNITED STATES

Survey of American foreign policy with special emphasis on America's rise to world power in the twentieth century.

560. HISTORY OF THE AMERICAN WEST

Survey of the western expansion of the American nation.

565. ETHNIC MINORITIES IN AMERICAN HISTORY

Historical perspective of the major ethnic groups, their efforts to assimilate and their interaction with American society.

570. AMERICAN URBAN HISTORY

Historical consideration of the city in U.S. history from colonial times to the present.

589. REVOLUTIONS IN HISTORY

Nature and causes of revolutions from an historical as well as a broad social science perspective; both revolutions and revolutionists from different parts of the world are examined.

593. SEMINAR IN HISTORY

Intensive study of some phase of history. May be repeated for credit with consent of instructor.

596. SEMINAR IN BLACK HISTORY

Study of some phase of Black history to be developed by the instructor with the class. May be repeated for credit with consent of instructor.

HUMANITIES

The humanities major is interdisciplinary in concept, and students are encouraged to take courses in each of the six fields. The student may be concerned only with his or her individual development, but the major can also lead to one of the many professions related to arts and letters, to a continually widening spectrum of interests, or to graduate study specializing in a single field.

Requirements for the major: six upper-division courses in either Category A or B; four upper-division courses in the other. Category A includes art, music and drama courses not cross-listed with English; Category B includes English, foreign language (French, German or Spanish at present), philosophy. The major also requires three courses (101, 102, 103) or equivalent proficiency in a foreign language, Humanities 400 which must be taken during the senior year, and one elective from Humanities courses 402-498

A list of recommended courses for the humanities major may be obtained from the Office of the School of Humanities.

319. MYTH, METAPHOR AND SYMBOL

Nature and function of myth and mythmaking; ways in which figurative language is used in different disciplines to create models for understanding the world and human experience.

330. ARTS AND IDEAS

An interdisciplinary exploration of several ways in which different arts exhibit ideas and various ideas stimulate our understanding of and pleasure in the arts.

350. LITERARY AND CULTURAL TRADITIONS OF WESTERN EUROPE

Major Western European aesthetic tendencies as seen in selected literary masterpieces and as reflected in art, architecture and music.

353. POPULAR CULTURE

Significance and context of popular modes of art and entertainment focusing on selected periods, such as the rock generation.

400. HUMANITIES SEMINAR

A seminar considering the various ways (particularly through philosophy, literature and the arts) in which people deal with "human experience." *Prerequisite: senior standing or consent of instructor.*

402. INDIVIDUALITY OR CONFORMITY; ALIENATION OR COMMUNITY

Readings from literature, philosophy and social analysis as the basis for discussion of the crisis in the individual's sense of himself and in his relation to others. A seminar course open to students in all majors.

420. THE DEATH OF GOD

Implications of Nietzsche's statement "God is Dead!" with references to the alternatives available to modern man on the meaning and purpose of life. A seminar course open to students in all majors.

460. CULTURE STUDIES

Aspects of culture, language and civilization with emphasis upon major factors shaping national tradition. May be repeated for credit as topics change.

480. INTRODUCTORY LINGUISTICS

Scientific study of language as a system: sound, meaning and word-ordering systems; sub-systems (dialects), writing systems.

496. SELECTED TOPICS IN HUMANITIES

Seminar in special topics chosen from arts or humanities. May be repeated with change of topic.

498. STUDIES IN HUMANITIES

Selected topics in general and interdisciplinary studies. (2 units)

695. DIRECTED GRADUATE STUDIES

Graduate-level independent study under the direct supervision of a faculty member approved by the committee on graduate education. (Credit to be arranged: 1 to 5 units)

699. THESIS

Preparation of M.A. thesis under the direction of a faculty member approved by the committee on graduate education. Maximum nine credits applicable toward the M.A., with a special major. *Prerequisite: advancement to candidacy.* (Credit to be arranged: 1 to 5 units)

HUMAN SERVICES

Human services is an interdisciplinary, career-oriented degree program drawing from sociology, psychology, ethnic studies and health science. It is particularly suited to the para-professional person whose work role is that of a generalist who must serve in a variety of work settings and deal with a variety of human needs. Consequently, courses have been selected and designed to meet minimum general occupational needs of human services personnel.

Requirements for the major: Health Science 120, 336, 351, 470; Psychology 100, 387; Social Sciences 155; Sociology 100, 318, 352 or 354, 356, 401, 410; Human Services 305; Human Services 400 or Sociology 473, Psychology 327 or Sociology 339, and 15 units of field service/internship chosen from Health Science 496, 497A, 497B and/or Sociology 575, selected in consultation with an advisor.

Up to five units in field service/internship may be accepted in transfer.

Lower-division prerequisites:

HEALTH SCIENCE 120. HEALTH AND SOCIETY: AN ECOLOGICAL APPROACH

PSYCHOLOGY 100. INTRODUCTION TO PSYCHOLOGY

SOCIAL SCIENCES 155. MINORITY GROUPS IN AMERICA

SOCIOLOGY 100. THE STUDY OF SOCIETY

Upper-division courses:

HEALTH SCIENCE 336. DRUG AND ALCOHOL USE AND ABUSE

HEALTH SCIENCE 351. FOODS, NUTRITION AND HEALTH

HEALTH SCIENCE 470. HEALTH BEHAVIOR AND COMMUNITY HEALTH EDUCATION

HEALTH SCIENCE 496. PRE-FIELD STUDY PRACTICUM

HEALTH SCIENCE 497A and B. FIELD STUDY: ACTION/RESEARCH IN HUMAN ECOLOGY AND HEALTH

PSYCHOLOGY 327. PSYCHOLOGY OF ADOLESCENCE AND AGING

PSYCHOLOGY 387. COMMUNITY PSYCHOLOGY

SOCIOLOGY 318. SOCIAL WELFARE POLICIES AND SERVICES

SOCIOLOGY 339. SOCIALIZATION

SOCIOLOGY 352. JUVENILE OFFENDER

SOCIOLOGY 354. DEVIANT BEHAVIOR

SOCIOLOGY 356. SOCIOLOGY OF MENTAL ILLNESS

SOCIOLOGY 401. SOCIAL ORGANIZATION

SOCIOLOGY 410. RACIAL AND CULTURAL MINORITIES

SOCIOLOGY 473. INTERVIEWING IN SOCIAL WORK

SOCIOLOGY 575. INTERNSHIP IN SOCIOLOGY AND SOCIAL WORK

305. RESEARCH METHODS IN THE HUMAN SERVICES

Basic methods of research in the human services including collection, sampling, and interpretation of demographic data. Techniques to assess selection, placement and training procedures of human services personnel. Methods of evaluating the effectiveness of programs in achieving their goals.

400. HUMAN SERVICES COUNSELING

Techniques of behavior change used by the human service worker including rehabilitation, remotivation, and environmental modification. Basic communication skills, counselor attitude and behavior, and group counseling methodology will be discussed, practiced, and experienced during the course.

INTERDISCIPLINARY STUDIES

The College is developing a limited number of courses outside of its department and school structure.

Also offered as interdisciplinary studies are the certificate programs in classical/medieval studies, international relations, bilingual/cross-cultural studies. See Page 79.

388. SPECIAL COMPREHENSIVE EXAMINATION IN UPPER-DIVISION GENERAL EDUCATION

Independent study of selected readings drawn from many disciplines in the natural sciences, social sciences and humanities, interrelated on the topic "The Arts and Sciences as Human Activities." No class meetings; study guides provided at registration outline entire quarter's work. Six-hour examination at end of term. See Page 53 for comprehensive examination limitations. (10 or 15 units)

460. ASPECTS OF CHICANO CULTURE

Cultural, political and social values of the Chicano as reflected in Chicano literature, art, music, teatro and other forms and their relationship to concurrent developments in Mexico.

695. DIRECTED GRADUATE STUDIES

Graduate-level independent study for students in the program for the M.A. with a special major; to be conducted under direct supervision of a faculty member from the student's committee and with approval of the committee on graduate education. (Credit to be arranged: 1 to 6 units)

698. EXTENDED ENROLLMENT

Independent study leading to completion of requirements (other than course work) for the M.A. degree. Students enrolled in this course have full use of College facilities. *Prerequisites: advancement to candidacy and consent of the Associate Dean of Graduate Studies.* (0 units)

699. GRADUATE THESIS

Preparation of the thesis for the M.A. with a special major, under the direction of a faculty member from the student's committee and with approval of the Associate Dean of Graduate Studies. Maximum of 9 credits applicable toward the M.A. *Prerequisite: advancement to candidacy.* (Credit to be arranged: 1 to 9 units)

LIBERAL STUDIES

The B.A. in Liberal Studies is a multidisciplinary degree program designed for students whose needs or interests are for a more broadly based liberal arts curriculum than is possible through existing disciplines. Although the program is open to all students, it should prove of particular value to those who plan to enter the elementary teaching field. The program is outlined below:

Basic program	126 units
English (including grammar, literature, composition and speech)	32
Mathematics and the physical and life sciences	30
Social sciences	32
Humanities and the fine arts (including foreign languages)	32
Field of concentration	18
Physical education activity	6
Free electives	36
	<hr/>
	186 units

A student electing to complete the B.A. in Liberal Studies is also required to meet the general education requirements. A careful selection of courses within the major, including electives, will enable the student to complete the general education requirements, as well as the major, without additional course work.

By an appropriate selection of course work in the basic program, the field of concentration and the free electives, the following objectives may be achieved:

1. Completion of a second major in certain fields.
2. Completion of the professional education requirements leading to a multiple subjects teaching credential.
3. By deferment of some course work to a fifth year, a three-fold objective: completion of the B.A. in Liberal Studies, a second major and the professional education requirements for the multiple subjects teaching credential.

Basic Program

The basic program for the B.A. in Liberal Studies is divided into four broad categories. Within each of these four, the course work is further subdivided into courses in required areas and elective courses.

English (32 units)

Two courses in composition:

English 101

English 394 (English 396 may be a substitute)

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English—Continued

One course in literary analysis:

English 301 or 302 or 303

One course in language:

English 500 or 505

Electives (14½ units)

Ten units must be upper-division. Selections are to be made from the course offerings of the Department of English; Drama 120 and 210 are also acceptable.

Humanities (32 units)

One course in the arts:

Art 200 or Drama 250 or Music 180

Two courses in letters:

English 110, 111 and 170; Foreign Language 450; French 101-102-103; German 101-102-103; Spanish 101-102-103, and 450; Philosophy 190

Humanities activity (2 units):

To be chosen from Art 201, 203, 204, 304, 354, 357, 395, 397, 482; Drama 320; Music 200, 205, 220, 221, 222, 380 through 391 and 396

Electives (15 units):

Ten units must be upper-division. Selections are to be made from the course offerings of the School of Humanities (excluding the Department of English).

Social sciences (32 units)

Three courses in civilization:

Social Sciences 140, 142, 144, 146, 150, 155, 160, 165

Social Sciences 497

Electives (14½ units):

Ten units must be upper-division. Selections are to be made from the course offerings of the School of Social and Behavioral Sciences.

Natural Sciences and Mathematics (30 units)

One course in basic mathematics:

Mathematics 100 or 101 or 200

One course in applied mathematics:

Mathematics 150 or Mathematics 301 or Computer Science 140

One course in life sciences:

Biology 100 or 202

One course in physical sciences:

Chemistry 100; Earth Science 101; Geography 103; Natural Sciences 100; Physics 100

Electives (10 units) *

Five units must be upper-division. Selections are to be made from the course offerings of the School of Natural Sciences.

** As one of these electives, those seeking a multiple-subjects teaching credential may meet the state-mandated requirement in health education by taking one of the following: Health Science 330, 336, 337, 426, 435 or 440.*

Field of Concentration

The field of concentration requires 18 quarter units, with at least 15 units at the upper-division level. Courses to meet this requirement, to be selected in consultation with an advisor, must be from a single one of the disciplines below:

Art	Administration	Biology
Drama	Anthropology	Chemistry
English	Economics	Mathematics
French	Geography	Physics
Music	History	
Philosophy	Political Science	
Spanish	Psychology	
	Sociology	

An alternative is also possible for the field of concentration. In consultation with an advisor, courses may be chosen to develop a coherent program in one of the following fields: bilingual/cross-cultural studies, child development, classical/medieval studies, environmental studies, humanities, international relations, social sciences.

A multiple subjects credential candidate may pursue a bilingual/cross-cultural focus within the liberal studies major, and upon completion of the program will be granted a certificate attesting to this fact and to a proficiency in Spanish. The bilingual/cross-cultural focus requires a different basic program than the standard liberal studies program. For further details, consult the School of Education.

MATHEMATICS

The role of mathematics in society is rapidly growing. New mathematical methods are making an ever wider range of problems amenable to quantitative treatment, thus stimulating new applications, especially in the social, behavioral, management and biological sciences. Computers, able to process formerly unmanageable masses of data and to perform prodigious computational chores, have freed mathematicians to attack problems arising in such diverse areas as industrial management, medical research, environmental studies, ecology, psychology and space exploration.

The mathematics program at California State College, San Bernardino prepares students for careers utilizing applied mathematics, such as oceanography, biostatistics, and computer design and analysis. The program also prepares students interested in teaching, and for others it provides the well-rounded background necessary for graduate work in mathematics and the social and physical sciences.

Requirements for the bachelor of arts degree: 55 units in mathematics including Mathematics 200, 201, 202, 203, 311, 312, 331, 551 and 15 units in upper-division electives, not to include Mathematics 301, 302, 350 or 499, chosen in consultation with the advisor. Physics 211, 212, and 213 are recommended for mathematics majors.

Requirements for the bachelor of science degree: Computer Science 140, Mathematics 200, 201, 202, 203, 311, 312, 331, 551, 556, 572 and 10 units of upper-division electives, not to include Mathematics 301, 302, 350 or 499, chosen in consultation with the advisor; 25 units in additional courses beyond the general education requirements from at most two disciplines in the natural sciences, chosen in consultation with the advisor. Physics 211, 212 and 213 are strongly recommended.

The required core of the major programs (Mathematics 311, 312, 331, 551) is designed to provide a solid background for a student planning a career as either an applied mathematician or secondary mathematics teacher or planning to study mathematics on the graduate level.

Departmental Honors: The department faculty will determine whether a student is to be awarded departmental honors upon graduation. The sole criterion will be the student's ability to do quality independent work in mathematics. One or more of the following types of activities will be required in order for a student to be considered: (1) completion of Mathematics 595 Independent Study, (2) completion of independent study assignments in regular upper-division mathematics courses, (3) challenge by examination of upper-division mathematics courses; and (4) extracurricular independent study projects. Mathematics 595 Independent Study will be offered on demand. Majors planning to enroll should request department consent and assignment of a project one term in advance of the term in which the course will be taken.

Requirements for a minor in mathematics: Computer Science 140 and Mathematics 200, 201, 202, 311 and 331.

100. THE IDEAS OF MATHEMATICS

Topics include inductive and deductive reasoning, mathematical patterns, methods of counting, basic concepts of probability and statistics.

101. PRE-CALCULUS MATHEMATICS

Inequalities; absolute value; algebraic, logarithmic, trigonometric and exponential functions; miscellaneous topics. *Prerequisites: plane geometry and two semesters of high school advanced algebra or their equivalent.*

110. INTRODUCTION TO COLLEGE MATHEMATICS

Set theory, inequalities, absolute value, algebraic functions, graphing, systems of equations, linear algebra.

150. ELEMENTARY STATISTICS

Basic principles of statistics with applications to the natural and behavioral sciences. *Prerequisite: a year of high school advanced algebra or its equivalent.*

200. BASIC CONCEPTS OF CALCULUS

An introduction to differentiation and integration of functions in one variable, with applications.

201. CALCULUS II

Transcendental functions, formal integration, differentials and the law of the mean, fundamental theorem of integral calculus, arc length and curvature, physical applications, improper integrals. *Prerequisite: Mathematics 200 with a grade of C or better or consent of the department chairman.*

202. CALCULUS III

Curve sketching, areas, arc lengths, and curvature in polar coordinates; solid analytic geometry and vector calculus; partial differentiation and multiple integration with applications to geometry and physics. *Prerequisite: Mathematics 201 with a grade of C or better or consent of the department chairman.*

203. CALCULUS IV

Sequences, infinite series and expansion of functions; the elements of ordinary differential equations including the general linear equation with constant coefficients; applications. *Prerequisite: Mathematics 202 with a grade of C or better or consent of the department chairman.*

301. MODERN ARITHMETIC

Various mathematical systems and their arithmetics. This course is designed for non-mathematics majors.

302. MODERN MATHEMATICS

Units of measurement, descriptive statistics, use of computers and other topics are integrated into a treatment of mathematical problem solving. May not be counted toward fulfilling requirements in the major.

311. INTRODUCTION TO ABSTRACT ALGEBRA I

Axiomatically defined real number system and its subsystems; mappings and relations; abstract systems. *Prerequisite: consent of advisor.*

312. INTRODUCTION TO ABSTRACT ALGEBRA II

Groups, rings and fields. *Prerequisite: Mathematics 311 or consent of instructor.*

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331. LINEAR ALGEBRA

Vector spaces over a field, linear dependence, dimension; matrices and systems of linear equations; special matrices and canonical forms; characteristic values and vectors; diagonalization of quadratic and Hermitian forms; applications. *Prerequisite: Mathematics 203 or consent of instructor.*

350. STATISTICS: HYPOTHESIS TESTING AND ESTIMATION

After a brief introduction to descriptive statistics, course will emphasize hypothesis testing and estimation, using packaged computer programs. *Prerequisite: one term of college mathematics.*

410. MATHEMATICAL MODELING

Applications in science, ecology, industry, business, medicine, education and libraries. Computer simulations using models in demography, economics and ecology. *Prerequisite: Mathematics 203.*

420. NUMERICAL METHODS

Introduction to numerical methods for finding solutions of non-linear equations, systems of linear equations and ordinary differential equations. Discussion of errors and numerical instabilities; numerical differentiation; numerical integration. *Prerequisites: Mathematics 203 and Computer Science 135 or equivalent.*

444. PROBABILITY AND STATISTICS I

Mathematical theory of probability and statistics with application to the problems of sampling and decision making. Axiomatic development of probability; discrete random variables and their probability distributions with emphasis on the Bernoulli and Poisson distributions; discrete stochastic processes. *Prerequisites: Mathematics 203 and either 311, 331, or consent of instructor.*

445. PROBABILITY AND STATISTICS II

Mathematical theory of probability and statistics with application to the problems of sampling and decision making. Continuous random variables and their probability distributions; moment generating functions; the normal, t , chi-square, and F distributions applied to testing hypotheses. *Prerequisites: Mathematics 444 and consent of instructor.*

499. METHODS AND MATERIALS IN THE TEACHING OF MATHEMATICS

May not be counted toward fulfilling requirements of courses in the major. *Prerequisites: Education 330; senior or graduate standing and admission to the teacher credential program.*

520. GRAPH THEORY

Graphs and subgraphs including Eulerian, planar and Hamiltonian graphs, adjacency and incidence matrices, trees and topological parameters. *Prerequisite: Mathematics 311. (2½ units)*

521. MATHEMATICAL THEORY OF GAMES

Matrix games, pure and mixed strategies, minimax theorem; basic concepts in non-cooperative and cooperative n -player games. Examples from military, political and economic "games." *Prerequisite: consent of department. (2½ units)*

539. GEOMETRY

Topics in affine and projective geometry with applications to Euclidean 2 and 3 space and to modern algebra. *Prerequisites: Mathematics 312 and 331 or consent of instructor.*

551. ANALYSIS I

Continuous and differentiable functions; infinite series; Riemann and improper integrals. *Prerequisites: Mathematics 203 and 311 or consent of instructor.*

552. ANALYSIS II

Uniform convergence, computation with series, functions represented by integrals, Fourier series, Lebesgue measure and integration. *Prerequisite: Mathematics 551 or consent of instructor.*

556. ORDINARY DIFFERENTIAL EQUATIONS

First order equations, systems of first order equations, fundamental existence and uniqueness theorems; linear equations, existence and uniqueness theorems for linear equations; boundary value problems, oscillation theorems, special functions, stability theory. *Prerequisite: Mathematics 331 or consent of instructor.*

561. FUNCTIONS OF A COMPLEX VARIABLE

Complex numbers, derivatives and integrals of analytic functions, the geometry of elementary functions, Cauchy's integral theorem and formula; Laurent expansions and evaluation of contour integrals by residues. *Prerequisite: Mathematics 311 or consent of instructor.*

568. NUMBER THEORY

Topics from the theory of numbers including congruences, Diophantine equations, and a study of prime numbers. *Prerequisite: Mathematics 312 or consent of instructor.*

572. MODERN ALGEBRA

Polynomials over integral domains, algebraic and transcendental extension of number fields, Galois theory. *Prerequisite: Mathematics 312.*

581. TOPOLOGY

An introduction to point set topology; general topological and metric spaces. *Prerequisite: Mathematics 312.*

595. INDEPENDENT STUDY

An independent study course for senior mathematics majors. A total of six units in Mathematics 595 may be applied toward graduation. *Prerequisites: Mathematics 312, 331, 551 and consent of department and instructor.* (Credit to be arranged: 1 to 6 units)

MUSIC

The contemporary musician has a potential access to more kinds of music than ever before in history. The music curriculum—with courses in electronic music, performance, world music, historical studies, music education and integrated theory—reflects that diversity in that it offers programs for the student who wishes to enrich his or her education, become a professional musician, pursue an advanced degree in music or enter the teaching profession.

Requirements for the major: 65 units distributed as follows: Music 111, 112, 113, 314, 315, and a minimum of three units of applied music at the upper-division level; proficiency in piano, demonstrated by satisfactory completion of a placement examination or by passing Music 222 with a minimum grade of B; successful completion of six repertory listening examinations; and Option I or Option II.

Option I. 37 units selected in consultation with a faculty advisor. This option is open to all students, but is especially suited as preparation for careers in performance or teaching at the college level.

Option II. Music 210, 304, 305, 306, 350, and a minimum of five units selected in consultation with a faculty advisor from Music 200, 201, 202, 203, 204 and 205. This option is open to all students, but is especially suited as preparation for the Ryan Act single subject teaching credential in music.

Attendance at the weekly departmental recitals is also encouraged each quarter in residence, and participation in one or more of the major performance groups is expected.

A maximum of 15 units in applied music or courses listed under music education may be included in the total requirements for the major. Further information may be found in the department's Handbook For Music Majors.

Requirements for a minor: Music 100, 180, 220; at least one course in world music; two other five-unit courses, one of which must be at the upper-division level; and the successful completion of three repertory listening examinations.

THEORY

The integrated music theory courses are the core of a program which seeks to develop in the student the ability to cope with any aural experience. The courses deal with the materials of music and how they combine to create musical structures, analysis of representative works and continued development of the musical ear and keyboard facility. Designed primarily for the music major and the liberal arts student with a serious interest in music.

100. BASIC MUSICIANSHIP

Rudiments of music: pitch, rhythm, scales, melody, sight-singing, dictation and introductory keyboard activity. Credits may not be counted toward fulfilling requirements of the major. Lecture and two hours of laboratory.

111. THEORY I

Basic materials of music and how they combine to create musical structures. Analysis of representative works is combined with creative work in counterpoint and harmony, together with sightsinging, ear training and keyboard harmony. Lecture and two hours of laboratory. *Prerequisite: Music 100 or equivalent or placement examination.*

112. THEORY II

Continuation of Music 111. Lecture and two hours of laboratory. *Prerequisite: Music 111 or equivalent or consent of instructor.*

113. THEORY III

Continuation of Music 112. Lecture and two hours of laboratory. *Prerequisite: Music 112 or equivalent or consent of instructor.*

314. THEORY IV

Melody, harmony and texture as they relate to musical structure; extension of tonality and its eventual evolution into twentieth-century practice; analysis of representative compositions; continuation of sightsinging, ear and keyboard training. Lecture and two hours of laboratory. *Prerequisite: Music 113 or equivalent or consent of instructor.*

315. THEORY V

Continuation of Music 314. Lecture and two hours of laboratory. *Prerequisite: Music 314 or equivalent or consent of instructor.*

542. STUDIES IN MUSICAL ORGANIZATION

Intensive study of one aspect of musical organization: tonal, melodic or rhythmic. Content will vary. May be repeated for credit. *Prerequisite: satisfactory completion of Music 315 or equivalent.*

HISTORY AND LITERATURE

These courses are concerned with musical ideas and styles, as well as social and aesthetic factors influencing sounds composers ultimately preferred and organized.

180. STUDIES IN MUSIC

Exploration of the elements of music and the nature of meaning and musical style, with emphasis on listening and analysis.

304. HISTORY OF MUSIC I

Development of Western music from antiquity through the Renaissance, with emphasis on analysis, listening and individual study. *Prerequisite: Music 113 or consent of instructor.*

305. HISTORY OF MUSIC II

Continuation of Music 304. Baroque to the late nineteenth century. *Prerequisite: Music 113 or consent of instructor.*

306. HISTORY OF MUSIC III

Continuation of Music 305. Late Romantic to the present. *Prerequisite: Music 113 or consent of instructor.*

320. TWENTIETH CENTURY MUSIC

321. MUSIC IN THE CLASSIC ERA

322. MEDIEVAL AND RENAISSANCE MUSIC

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323. NINETEENTH CENTURY MUSIC

324. BAROQUE MUSIC

400. STUDIES IN COMPOSERS

Intensive study into works of a particular composer. Content will vary. May be repeated for credit.

402. STUDIES IN FORMS

Intensive study into a particular form. Content will vary. May be repeated for credit.

405. SEMINAR IN CHORAL LITERATURE AND CONDUCTING

Prerequisite: completion of Music 113 or consent of instructor.

407. STUDIES IN ORCHESTRAL LITERATURE AND ORCHESTRATION

Prerequisite: completion of Music 113 or consent of instructor.

WORLD MUSIC

The following courses are concerned with music as it has developed and as it exists in various cultures of the world. Courses include background necessary to enable the student to understand the role of music in particular societies. Visiting faculty and guest musicians when possible. No prerequisites. Non-music majors encouraged to enroll.

350. MUSIC OF OTHER CULTURES

Offered either as a survey of world music or as an intensive study into the music of a particular country or region. May be repeated for credit.

351. MEXICAN AND CHICANO MUSIC

Musical cultural heritage of Mexico and its relation to the American community.

352. AFRO-AMERICAN MUSIC

Historical development of the Afro-American musical heritage.

360. MUSIC IN THE UNITED STATES

Primarily concerned with music not directly related to Western European classical traditions: folk heritage and blues tradition.

COMPOSITION

Working creatively with sound in a relatively unstructured situation. Experimentation is encouraged, based on individual abilities and preferences. Composition courses may be repeated for credit with consent of instructor.

416. SEMINAR IN ELECTRONIC COMPOSITION

Techniques of electronic composition. Experimentation based on individual abilities and preferences. Non-majors encouraged to enroll.

417. SEMINAR IN COMPOSITION

May be repeated for credit. *Prerequisite: consent of instructor.*

INDEPENDENT STUDY

528. SPECIAL PROJECTS

Individual projects in orchestration, conducting and score reading, theory, history, composition, electronic music. *Prerequisite: consent of instructor.* (1 to 5 units)

MUSIC EDUCATION

The following courses are designed for the prospective elementary and secondary school teacher.

200. CLASS VOICE

Fundamentals of singing, voice production and diction. (2 units)

201. CLASS STRINGS

Beginning study on violin, viola, cello and bass. May be repeated for credit. (1 unit)

202. CLASS WOODWINDS

Beginning study on selected woodwinds. May be repeated for credit. (1 unit)

203. CLASS BRASS

Beginning study on selected brass instruments. May be repeated for credit. (1 unit)

204. CLASS PERCUSSION

Beginning study of percussion instruments. May be repeated for credit. (1 unit)

205. CLASS GUITAR AND FOLK MUSIC

Beginning guitar instruction designed for the prospective elementary school teacher. May be repeated for credit. (1 unit)

210. CONDUCTING

Introduction to basic conducting techniques. (2 units)

220. CLASS PIANO I

Basic keyboard techniques designed for the music major, the elementary school teacher and the liberal arts student without keyboard experience. Placement examinations are given at the beginning of each quarter. *Prerequisite: approval of department chairman and consent of instructor.* (1 unit)

221. CLASS PIANO II

Basic keyboard techniques designed for the music major, the elementary school teacher and the liberal arts student. Placement examinations are given at the beginning of each quarter. *Prerequisites: approval of department chairman and consent of instructor.* (1 unit)

222. CLASS PIANO III

Basic keyboard techniques designed for the music major, the elementary school teacher and the liberal arts student. Placement examinations are given at the beginning of each quarter. *Prerequisites: approval of department chairman and consent of instructor.* (1 unit)

302. MUSIC THEATRE PRODUCTION

(2 units)

470. CREATING MUSIC

Social, classroom and electronic music created and performed by the student with conventional and imaginative sources of sound. (2 units)

499. METHODS AND MATERIALS IN THE TEACHING OF MUSIC

May not be counted toward fulfilling requirement of courses in the major. *Prerequisites: Education 330, senior or graduate standing and admission to the teacher credential program.*

531. MUSIC IN THE CLASSROOM

A correlated study of basic music theory, piano and vocal technique and classroom skills. Designed for the elementary teacher. Not open to majors in music.

APPLIED MUSIC

Music majors are required to take a minimum of three units of applied music at the upper-division level. Applied music units on the same instrument may not be taken concurrently. A maximum of 15 units may be applied to the total requirements for the major. Permission to register in upper-division music courses can be granted only after a placement audition or by faculty recommendation. Applied music courses are available to undergraduate music majors only.

For students planning a career in music education, it is strongly recommended that, in addition to the three-unit requirement on a major instrument, three units of applied music study on a secondary instrument be included.

Students planning a career in performance are expected to study on their major instrument each quarter they are in residence. Students working in other areas may develop applied music programs consistent with their interest and goals.

The following music courses are available to undergraduate music majors only.

240. BEGINNING AND INTERMEDIATE VOICE

(1 unit)

241. BEGINNING AND INTERMEDIATE KEYBOARD INSTRUMENT

(1 unit)

242. BEGINNING AND INTERMEDIATE STRING INSTRUMENT

(1 unit)

243. BEGINNING AND INTERMEDIATE WIND INSTRUMENT

(1 unit)

244. BEGINNING AND INTERMEDIATE BRASS INSTRUMENT

(1 unit)

245. BEGINNING AND INTERMEDIATE PERCUSSION INSTRUMENT

(1 unit)

440. ADVANCED VOICE

Prerequisite: placement audition or consent of instructor. (1 unit)

441. ADVANCED KEYBOARD INSTRUMENT

Prerequisite: placement audition or consent of instructor. (1 unit)

442. ADVANCED STRING INSTRUMENT

Prerequisite: placement audition or consent of instructor. (1 unit)

443. ADVANCED WIND INSTRUMENT

Prerequisite: placement audition or consent of instructor. (1 unit)

444. ADVANCED BRASS INSTRUMENT

Prerequisite: placement audition or consent of instructor. (1 unit)

445. ADVANCED PERCUSSION INSTRUMENT

Prerequisite: placement audition or consent of instructor. (1 unit)

PERFORMANCE ORGANIZATIONS

Participation in performance organizations may be repeated for credit, but may not be counted toward fulfilling course requirements in the major.

380. CHAMBER ORCHESTRA

Prerequisite: consent of instructor. (1 unit)

381. BAND

Prerequisite: consent of instructor. (1 unit)

382. CHAMBER MUSIC

Prerequisite: consent of instructor. (1 unit)

385. CONCERT CHOIR

Prerequisite: consent of instructor. (1 unit)

386. CHAMBER SINGERS

Prerequisite: consent of instructor. (1 unit)

387. OPERA WORKSHOP

Prerequisite: consent of instructor. (1 unit)

391. JAZZ ENSEMBLE

Prerequisite: consent of instructor. (1 unit)

398. PERFORMANCE

Special performance groups such as South Indian singing, Collegium Musicum and piano ensemble.

Prerequisite: consent of instructor. (1 unit)

COMMUNITY SERVICE PROJECT

399. COMMUNITY SERVICE PROJECT

Credit for performing academically related tasks in such agencies as governmental, social service and educational institutions. May be repeated for a total of six units. No more than six units of credit for Community Service Project courses may be applied toward degree requirements. Graded credit/no credit. *Prerequisite: consent of instructor. (Credit to be arranged: 1 or 2 units)*

NATURAL SCIENCES

The College offers courses of an interdisciplinary nature but no degree program under the natural sciences designation.

100. DESCRIPTIVE ASTRONOMY

A brief history of the development of astronomy followed by modern descriptions of our planetary system, stars, galaxies and models of the universe. Discussions of space exploration and other methods of extending knowledge of the universe. No previous background in natural sciences is required. Lecture and two hours of laboratory.

300. SCIENCE AND TECHNOLOGY

Relationship between science and technology—past, present and future—with case studies of the energy crisis, the technology of pollution control and recycling, automation, computers, technology assessment and other contemporary issues.

310. MAN AND HIS ENVIRONMENT

Effects of science and technology on the environment. Special attention will be given to pollution sources, effects and possible solutions.

350. NATURAL PHENOMENA

Physical principles underlying natural phenomena and illusions, such as earthquakes, continental drift, geomagnetism, tides, weather, rainbows, auroras and mirages.

351. HEALTH AND HUMAN ECOLOGY

A survey of the impact of physical, social and biological environments on health related issues such as poor housing, drug abuse, juvenile delinquency, radiation and pesticide exposure, food quality, noise, air and water resources and their relation to human settlements.

392. SCIENTIFIC WRITING

Expository writing with emphasis on research reports and technical review papers. *Prerequisite: English 101, Philosophy 105 or consent of instructor.*

401. CLASSICAL AND MEDIEVAL SCIENCE AND TECHNOLOGY

Development of science and technology in the Egyptian, Babylonian, Greek, Roman and Medieval periods through the sixteenth century. Examination of the relationship between science and technology.

408. HUMAN VALUES IN A SCIENTIFIC AGE

Effect of science on human values; problems of the machine age and rapid scientific growth and possible solutions. A seminar course open to students in all majors.

410. HISTORY AND DEVELOPMENT OF SCIENTIFIC THOUGHT

Major developments in the natural sciences which have changed man's concept of himself and the universe. A seminar course open to students in all majors.

432. ENERGY AND ITS UTILIZATION BY MAN

Present and future energy sources, including fossil fuels, hydroelectric power, nuclear energy and solar energy. Emphasis is placed on scientific principles and technological requirements for developing energy sources, economic factors and environmental problems associated with energy production and consumption. A seminar course open to students in all majors.

NURSING

The Department of Nursing offers a two-year upper-division major in nursing, designed to articulate with community college nursing programs. The nursing courses, together with other college requirements, provide intellectual stimulation for individuals concerned with promoting optimum health in the community.

In addition to the requirements for admission to the College as a transfer student, the following criteria must be met prior to admission to the nursing program:

1. Lower-division requirements.
 - a) Completion of an associate degree in nursing or its equivalent. (Four courses in nursing and certification by a community college of fulfillment of minimum lower-division general education requirements specified in Title V of California Administrative Code. Students may remove deficiencies in lower-division general education in accordance with college requirements stated on Page 63.)
or
 - b) For graduates of diploma nursing programs, certification by the community college as having equivalent preparation for lower-division courses in nursing, together with completion of lower-division requirements in related fields and in general education.
2. Current California license as a registered nurse.
3. Junior standing.

The Department of Nursing is currently revising its program in preparation for seeking accreditation from the National League for Nursing. Students should obtain specific information about requirements and courses by contacting the Department of Nursing.

PARALEGAL STUDIES

The courses listed below are offered in support of the certificate program in paralegal studies, Page 82. Further information about this certificate program can be obtained from the Department of Political Science.

370. WILLS, ESTATES AND TRUSTS

Study of law relating to the control and disposition of property inter vivos (between living persons) and after death, wills, intestate succession (descent and distribution), future interests and trusts, estates in land, principles of estate planning and administration of an estate.

371. CONTRACT LAW

Study of law relating to contract formation, formalities, performance and breach. Effect on a contractual relationship of various types of subsequent conduct by the contracting parties and remedies available for breach. Introduction to the Commercial Code of California.

372. TORT LAW

Legal liability for wrongful interference with the person; tangible property, real and personal; intangible interests; and advantageous relations.

373. PROPERTY LAW

Basic principles of law relating to various types of property interests: real and personal, tangible and intangible, public and private; acquisition; bailment; fixtures; deeds; escrow, recording and search of public documents and security instruments in connection with real property.

374. LAW OF EVIDENCE

Study of trials at common law and in equity, including examination, competency and privileges of witnesses, judicial notice, burden of proof and presumptions, functions of judge and jury, common law and statutory rules and principles, and admissibility, exclusion and selection.

375. LITIGATION

Techniques of active listening, dealing with opposing counsel and staff, tactics of litigation. Emphasis on discovery, fact investigation and transcript analysis. Instruction in jurisdiction, remedies, civil litigation and drafting of pleadings.

385. LEGAL RESEARCH AND WRITING

Methods of legal research, problem analysis, and writing techniques. Emphasis on developing ability to write concise case briefs, case syntheses and legal documents.

PHILOSOPHY

Philosophy is humanity's oldest intellectual discipline. Philosophy's concerns range from questions fundamental to human understanding such as the nature of man, knowledge, truth, being, existence, right, freedom and the good life; to attempts to bring clarity, order and understanding to arguments dealing with pressing social problems such as the equitable distribution of society's goods, political violence, the right to privacy and governmental honesty.

Because at all its levels philosophy aims at the construction of sound arguments and clear concepts, it develops in the student high levels of skill in the analysis and organization of ideas. Acquisition of these basic intellectual skills is excellent preparation for further study and for entering a variety of career fields. Philosophy is a strongly recommended prelaw major and can provide solid background for careers in journalism, public service, government and politics among others.

Requirements for the major: 10 courses, three of which may be lower division (e.g. Philosophy 105, 190, 200). The remaining seven courses must be upper division and include a core of two courses from the history sequence (Philosophy 301, 303, 305, 307) and one course from a systematic field (Philosophy 312, 350, 360, 370 or 380). The remaining four courses must be apportioned according to the requirements of emphasis area A (systematic philosophy) or emphasis B (philosophy and public affairs).

The requirements for Area A: one additional course from the history sequence (see above) plus Philosophy 312, 350 and 380.

The requirements for Area B: four courses chosen from Philosophy 320, 340, 355, 362, 365, 465.

A comprehensive examination, testing skills by applying them to a small set of philosophical works announced at the close of junior year, will be required for students wishing to qualify for graduation with departmental honors and is highly recommended for those planning graduate study in philosophy.

In order to meet entrance standards for most graduate departments of philosophy and to qualify for strong recommendations from this department, students planning to apply for graduate programs should also complete two additional upper-division elective philosophy courses, plus a minimum of four full-term courses, or equivalent proficiency, in one foreign language (preferably French, German, Latin or Greek), with attainment of demonstrable reading skill.

Requirements for the minor: six philosophy courses, no more than two of which may be lower division; the six must include at least one from the sequence of readings in the history of philosophy: 301, 303, 305; and one systematic field chosen from 312, 350, 360, 370.

190 / Philosophy

105. ARGUMENT AND EVIDENCE

Analysis of various kinds of reasoning employed in everyday life and in more specialized contexts, to develop each student's skill in understanding and using carefully constructed arguments. Illustrations will include materials drawn from contemporary issues.

190. STUDIES IN PHILOSOPHY

Introduction to the analysis of philosophic problems centered on things done, things known and things made. Intensive group discussion is based on writings from Greek, medieval, early modern and contemporary philosophers.

200. STUDIES IN ONE GREAT PROBLEM

Concentration on a single important philosophic problem, e.g., what is justice?, what is beauty?, how are power and wisdom connected?, is there a God? Radically different works will serve to foster discovery of the multi-faceted structure of the problem and some solutions offered for it. May be taken for credit more than once, if the problem selected is different each time.

301. GREEK AND ROMAN PHILOSOPHY

Major philosophic movements from the Pre-Socratics and Plato to the Stoics, Epicureans, Sceptics and Mystics.

303. MEDIEVAL THOUGHT, EUROPEAN AND ARABIC

Significant philosophical doctrines from St. Augustine and Ibn Sina to Aquinas and Ibn Rushd.

305. MODERN PHILOSOPHY, SIXTEENTH-NINETEENTH CENTURIES

Roots of modern philosophy and science from Galileo and Descartes to Hegel and Marx.

307. CONTEMPORARY PHILOSOPHY

Recent directions in philosophy such as existentialism, phenomenology, positivism, pragmatism, ordinary language, structuralism, analysis and the like.

312. PHILOSOPHY OF LOGIC

Inquiry into diverse systems and conceptions of logic, ancient to modern.

316. DISCOVERY AND METHOD

Studies in the philosophy of the natural and social sciences treating questions such as the nature of creativity, proof, explanation, experiment and scientific revolutions.

320. PHILOSOPHY OF EDUCATION

An inquiry into some characteristic problems, through consideration of works by authors such as Plato, Rousseau, Newman and Dewey.

340. PHILOSOPHY OF MAN

Inquiry into traditional and contemporary views of the nature of man and their implications for human life.

350. ETHICS

Analysis of problems intrinsic to human action, through the study of alternative formulations offered by some great philosophers, present and past.

355. CONTEMPORARY ETHICAL ISSUES

Consideration of moral problems intensified by the rapid pace of social, economic and technological changes: genetic engineering, euthanasia, "the new sexual ethics," abortion, the right to privacy.

360. POLITICAL PHILOSOPHY

Some important ancient, medieval and modern works are examined systematically to illuminate issues concerning community action.

362. PHILOSOPHY AND DEMOCRACY

Philosophic problems of democracy from Socrates' debates with the Sophists to contemporary discussions. Emphasis on the ethical values and arguments involved in topics such as participation, citizenship and responsible decision making.

365. POWER, AUTHORITY, FORCE AND VIOLENCE

Inquiry into the relations and conflicts between might and right, using philosophic and historical documents. Focus is on the role of ethical justifications and reasoned arguments in action.

370. PHILOSOPHY OF ART AND CRITICISM: AESTHETICS

Principles and problems of art are analyzed with the help of important writings that raise questions of general theory and critical practice.

380. BEING, EXISTENCE AND KNOWING

Inquiry into first principles underlying reflection on the nature of the universe, man and his attempts to achieve knowledge.

408. MARX AND MARXIST PHILOSOPHERS

Investigation of Karl Marx's philosophy, with systematic attention to the variations on it contributed by Engels, Lenin, Stalin, Trotsky and Mao Tse-Tung.

450. MAN'S SEARCH FOR GOD OR GODS

A probing of some significant ideas about God and the philosophy of religion.

465. PHILOSOPHY OF LAW

Intensive study of the concept of law and its relation to power, command, reason, nature, justice, prediction.

490. SPECIAL TOPICS IN PHILOSOPHY

Study of a specially selected idea, problem or theory in philosophy. Course may be repeated for credit when topic is changed.

PHYSICAL EDUCATION AND RECREATION

The primary objectives of the Physical Education and Recreation Department are to emphasize the benefits of active recreation for all adults and to offer minor programs in the fields of physical education and recreation.

The department seeks to achieve total student involvement in some phase of its program—classes, intramurals or recreation. With the variety of activities available, students can develop, improve and maintain optimum physical fitness; develop and practice useful sport skills; enjoy wholesome physical recreation or vigorous intramural competition; and acquire desirable life-long attitudes for healthful adult living.

Requirement for graduation: each student is required to complete three activity courses (6 quarter units of credit) in physical education. It is recommended that these courses be taken during the first year on campus. Activities such as badminton, basketball, handball, squash, tennis and volleyball are offered on the courts, and the playing fields provide for archery, golf, soccer, softball and other field sports. Other activities include aquatics, combatives, dance, gymnastics and weight training.

Students who are over 25 years of age are not required to take physical education classes but may substitute six credit hours of their choice. Students who need to meet a requirement in health in preparation for a teaching credential should consult the School of Education.

Classes are coeducational except where the nature of the activity deems it inappropriate.

Requirements for a minor in physical education: Physical Education 180, 200, 300, 340, 350 and a course in school health; two of the following: Physical Education 140, 150, 165, 250, 251 and 332; and three additional two-unit courses offered by the department.

Requirements for a minor in recreation: Physical Education 171, 180, 200, 271, 361 and 410; two of the following: Physical Education 140, 150, 165, 332; and three additional two-unit courses offered by the department.

For information on intramurals or recreational use of the physical education facilities by students, contact the Physical Education and Recreation Department office.

All two-unit physical education courses are graded credit/no credit. The total number of physical education activity units (courses numbered below 150 or their equivalent) which can be used toward graduation is twelve.

110. INDIVIDUAL SPORTS (2 units)

- | | |
|-------------------------|--------------------------|
| A. Archery | H. Horseshoes |
| B. Badminton | I. Lawn bowling |
| C. Bicycling | J. Racquet (paddle) ball |
| D. Bowling | K. Skiing |
| E. Boating and canoeing | L. Squash racquets |
| F. Golf | M. Tennis |
| G. Handball | |

111. BODY CONDITIONING (2 units)

- | | |
|---------------------|--------------------|
| A. Circuit training | C. Weight training |
| B. Jogging | D. Yoga |

112. TRAMPOLINE AND STUNTS

Basic instruction in trampoline tumbling and gymnastics. (2 units)

113. COMBATIVES (2 units)

- | | |
|------------|--------------|
| A. Boxing | C. Karate |
| B. Fencing | D. Wrestling |

120. TEAM SPORTS (2 units)

- | | |
|-----------------|--------------------------|
| A. Basketball | E. Speedball |
| B. Field hockey | F. Touch (flag) football |
| C. Soccer | G. Volleyball |
| D. Softball | H. Water polo |

130. SWIMMING AND DIVING

Beginning, intermediate, advanced. Instruction at all levels, includes springboard diving. (2 units)

131. LIFE SAVING

To meet the standards for Red Cross certification. (2 units)

134. AQUATIC GAMES AND ACTIVITIES

Includes experiences in organizing and playing games such as water basketball, water polo, water volleyball and water ballet. (2 units)

135. SKIN DIVING

Principles of underwater swimming with mask, snorkel and fins. Basic physiology of diving. Instruction in selection, use and care of equipment. (2 units)

136. SCUBA DIVING

Physiology, physics and principles of underwater swimming with and without underwater breathing apparatus. Instruction in selection, use and care of equipment. To meet requirements for NAUI certification, field trip is required. *Prerequisites: doctor's physical examination and either passing Physical Education 135 or consent of instructor.* (2 units)

- | | |
|-----------------|-------------|
| A. Beginning | C. Advanced |
| B. Intermediate | |

140. DANCE (2 units)

- | | |
|-----------|-----------|
| A. Ballet | E. Square |
| B. Folk | F. Jazz |
| C. Modern | G. Social |
| D. Round | |

145. OUTING SKILLS

Basic outing skills including selection and care of a campsite, planning and preparation of meals and erecting of an adequate shelter. (2 units)

- | | |
|-------------------|-----------------|
| A. Backpacking | C. Camp cooking |
| B. Mountaineering | |

194 / Physical Education

150. SPORTS OFFICIATING

Techniques for sports officials and referees and experience working in intramural sports program. (2 units)

165. OUTDOOR EDUCATION AND CAMP LEADERSHIP

Knowledge, concepts and techniques for the administration and organization of camps and for working with people in the out-of-doors. Opportunities for supervised leadership and field trips to observe camp facilities, programs and sources. (2 units)

171. INTRODUCTION TO RECREATION

Orientation to recreation as a profession. Meaning, content, history, philosophy and scope of the field of recreation.

180. SPORTS SUPERVISION

Organization and supervision of recreational sports for school or community participation. (2 units)

200. FIRST AID

Prevention of injuries and the emergency care and treatment of illnesses or injuries. To meet the requirements for standard Red Cross certification. (2 units)

250. ADAPTIVE PHYSICAL EDUCATION

Organizing and supervising programs for the handicapped. (2 units)

251. SPORT IN CONTEMPORARY SOCIETY

Examination of the role of sport in today's society. (2½ units)

271. RECREATION LEADERSHIP

Organization, supervision and administration of recreation programs and practical experience in recreational activity situations in which leadership skills can be developed. *Prerequisite: Physical Education 171 or consent of instructor.*

300. SCHOOL GAMES AND RHYTHMS

Experiences in developing a physical education program for elementary school children. (2 units)

332. WATER SAFETY INSTRUCTION

Materials and methods in organizing school, community and camp aquatic programs. Supervised practice in teaching aquatics. To meet standards for Red Cross certification for teaching all levels of swimming, life saving and small craft safety. *Prerequisite: current senior life-saving certificate.* (2 units)

340. ORGANIZATION AND CONDUCT OF PHYSICAL EDUCATION

History, philosophy, organization, administration and methods of teaching physical education.

350. FIELD WORK IN PHYSICAL EDUCATION

Supervised leadership experience in school physical education class or intramural program. *Prerequisite: Physical Education 340.*

361. RECREATION PROGRAMMING

Materials and methods used in planning and conducting programs in recreation, such as social recreation, dramatics, art, sports. *Prerequisite: Physical Education 171.*

410. FIELD WORK IN RECREATION

Supervised leadership experience in a recreation agency. *Prerequisites: Physical Education 271 and 361.*

PHYSICS

Traditionally physics graduates either have gone on to graduate work in physics or have found employment in industrial or governmental laboratories. Other opportunities which have recently become interesting for physics graduates include atmospheric physics (including air pollution studies), geophysics, radiation safety, oceanography, astrophysics, technical administration, biophysics, computer science and medical instrumentation development.

The program for a bachelor of arts degree in physics provides basic knowledge in the main subject areas of physics as well as an opportunity for students to elect a considerable number of courses in other disciplines. The bachelor of science program includes additional course work in physics and related fields which further prepares a student for employment or graduate work. A candidate for the B.S. degree may also take several courses selected from any of the offerings of the college.

Requirements for the bachelor of arts degree: Physics 211, 212, 213, and 25 additional upper-division units in physics; Chemistry 215 or equivalent; and completion of a lower-division calculus sequence (Mathematics 200–203 or equivalent).

Requirements for the bachelor of science degree: Physics 211, 212, 213, and 40 units selected from the following: 311, 312, 313, 405, 411, 413, 430 and 440; Chemistry 215 or equivalent; completion of a lower-division calculus sequence (Mathematics 200–203 or equivalent); and 20 additional units from the offerings of the School of Natural Sciences, to be selected with the approval of the Physics Department.

Completion of the calculus sequence is prerequisite for most upper-division courses leading to a major in physics. A comprehensive examination covering the major field of study is required in the senior year.

Requirements for a minor in physics: Physics 211, 212 and 213; 10 units of upper-division physics; and 15 units of a lower-division calculus sequence (Mathematics 200, 201, and 202 or 203).

100. A SURVEY OF PHYSICS

Advances in physics which have influenced man's visualization of the universe. This course is intended for students with little background in science and mathematics. Lecture and two hours of laboratory.

111. BASIC CONCEPTS OF PHYSICS I

The first course of a two-course sequence surveying the basic concepts of physics, primarily for students entering fields relating to the biological sciences. Topics include waves, optics and mechanics. Lecture and six hours of laboratory. *Prerequisite: two years of high school algebra or equivalent.* (6 units)

196 / Physics

112. BASIC CONCEPTS IN PHYSICS II

Continuation of Physics 111. Topics include electricity, electric circuits, magnetism and modern physics. Lecture and six hours of laboratory. *Prerequisite: Physics 111 with a grade of C or better.* (6 units)

211. CLASSICAL MECHANICS

The first course of a three-course sequence surveying physics. For students with a strong background in mathematics and the sciences. Lecture and six hours of laboratory. *Prerequisite: Mathematics 200 with a grade of C or better. Prerequisite or corequisite: Mathematics 201.* (6 units)

212. STATIC AND DYNAMIC ELECTRICITY

Lecture and six hours of laboratory. *Prerequisites: Physics 211 and Mathematics 201 both with a grade of C or better.* (6 units)

213. WAVES AND MODERN PHYSICS

Lecture and three hours of laboratory. *Prerequisite: Physics 212 with a grade of C or better.*

305. ELECTRONICS FOR SCIENTISTS

Electrical measurement techniques and basic electronics. Lecture and 4½ hours of laboratory. Recommended preparation: some background in laboratory work. (2½ units)

311. CIRCUIT THEORY AND VECTOR ANALYSIS

Vector analysis and electrical circuit theory are presented and applied to a wide range of problems in physics. Lecture and three hours of laboratory. *Prerequisites: Physics 212 with a grade of C or better and Mathematics 203.*

312. RELATIVITY

Lecture only. *Prerequisite: Physics 212.*

313. ELECTRODYNAMICS

Derivation and applications of Maxwell's equations. Lecture only. *Prerequisite: Physics 311.*

405. INTERMEDIATE CLASSICAL MECHANICS

A continuing and more thorough study of the material introduced in Physics 211; statics and dynamics including rotational motion of rigid bodies and an introduction to advanced formulations of mechanics. Lecture only. *Prerequisite: Physics 212 and Mathematics 203.*

411. MODERN PHYSICS

Topics of modern physics with an introduction to the concepts of quantum mechanics. Lecture only. *Prerequisites: Physics 212, 312 and Mathematics 203, each with a grade of C or better.*

413. THERMAL AND STATISTICAL PHYSICS

Statistical behavior of systems of large numbers of particles, with applications. Thermostatistics is shown to be derivable from first principles by application of statistical methods. Lecture only. *Prerequisites: Physics 213 and Mathematics 202.*

430. ADVANCED PHYSICS LABORATORY

Selected advanced experiments appropriate to a student's previous preparation. May be repeated for credit. *Prerequisite: Physics 212.* (2½ units)

440. SEMINAR: TOPICS IN CONTEMPORARY PHYSICS

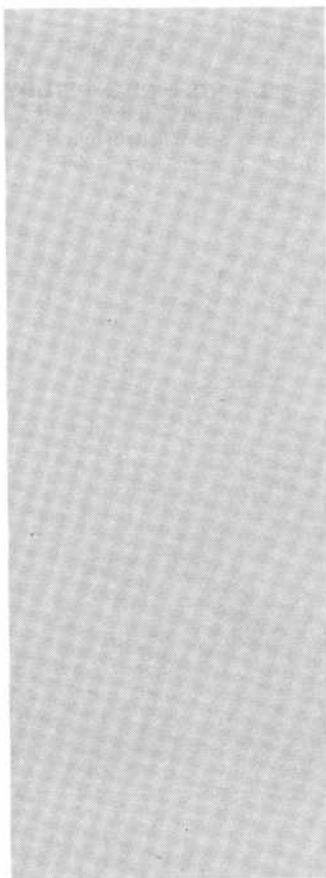
Papers on various topics are prepared by the students and presented during class sessions. May be repeated once for credit. *Prerequisite: consent of instructor.* (2½ units)

499. METHODS AND MATERIALS IN THE TEACHING OF PHYSICS

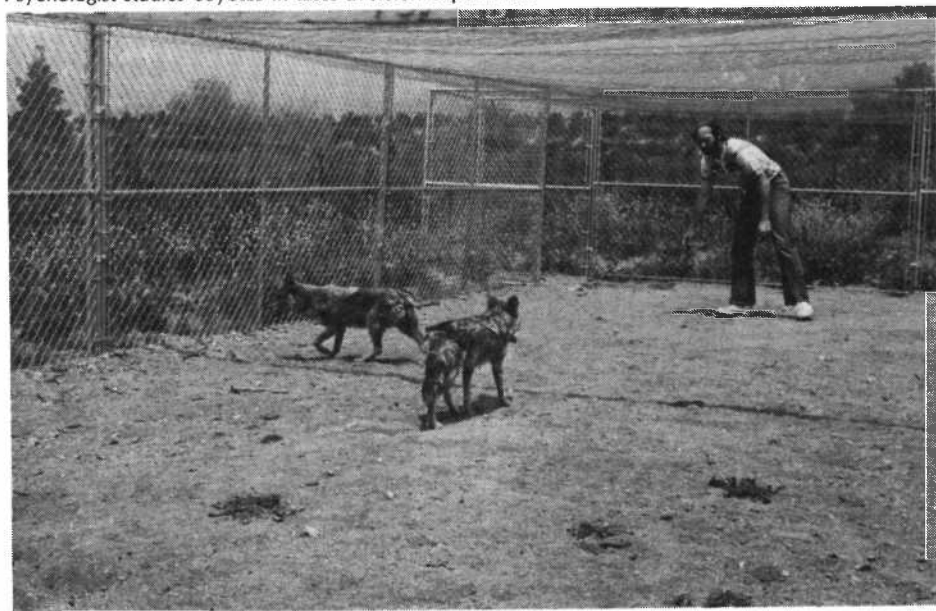
May not be counted toward fulfilling requirements of courses in the major. *Prerequisites: Education 330, senior or graduate standing and admission to the teacher credential program.*

595. INDEPENDENT STUDY

Research in physics conducted under the direction of a faculty member. A total of six units in Physics 595 may be applied toward graduation. *Prerequisites: consent of department and instructor.* (Credit to be arranged: 1 to 6 units)



Psychologist studies coyotes in taste aversion experiment



POLITICAL SCIENCE

The major in political science is designed for students who desire a liberal arts program with an emphasis on politics, government and public policy; plan a career in government service or public administration; seek training for positions in foreign service agencies of the United States government, international organizations or corporations; intend to study law; wish to prepare for teaching in the public schools; or intend to work for advanced degrees in political science in preparation for college or university teaching or for government service.

The department offers courses in the following fields: American government and politics, comparative politics, political behavior, international relations, political theory, and public policy and administration. Using combinations of these fields, students can tailor-make their study programs by creating tracks such as public policy, legal training or international relations.

In many political science courses students are afforded the opportunity to assume the roles of politicians, bureaucrats and judges in computer-simulated international conflict, in legislative and administrative hearings and in moot court proceedings. Also, they may work as interns in city and county government or in the offices of lawyers and judges, or they may complete independent study projects approved by the department.

Requirements for the major: a minimum of 50 quarter units in political science including Political Science 200, 202 and 40 upper-division units. Five units from each of the following five fields must be included in these 40 units: American government and politics (320, 326, 330, 410, 411, 428, and 431); comparative politics (300, 304, and 306); international relations (325, 400, 484, 500, 510, and 590); political behavior (440, 446, and 450); and political theory (310, 311, 313, and 314). The 15 remaining units must be chosen from political science courses not listed above. Political Science 575 and 595 will count as electives only after approval by the department chairman. With approval of the department chairman, up to 10 units in related fields may be counted toward the upper-division course requirement in political science.

Requirements for a minor in political science: six courses including Political Science 200 and 202, and at least four upper-division political science courses chosen in consultation with an advisor.

Departmental Honors: Students majoring in political science are eligible to receive honors in political science at graduation when they meet the following requirements: 3.5 grade-point average in all political science courses attempted, at least half of all work in political science completed at this college, and recommendation for departmental honors by political science faculty.

100. STUDENT GOVERNMENT

An applied exploration of leadership styles, organizational decision making, policies, procedures and organizational structures that affect student governance. May be repeated for credit once with consent of instructor. *Prerequisite:* consent of instructor. *Corequisite:* involvement in some aspect of Associated Student government. (2 units)

200 / Political Science

200. INTRODUCTION TO POLITICAL SCIENCE

Introduction to the scope of the discipline, to its basic philosophical concepts, methods, and to political action in various cultural contexts.

202. AMERICAN GOVERNMENT

Political structure and processes of the American governmental system. This course will satisfy the State Code requirement in United States history, constitution and American ideals and in California state and local government.

300. WESTERN POLITICAL SYSTEMS

Major Western political systems.

304. COMMUNIST POLITICAL SYSTEMS

Examination of the relationships among communist political systems.

306. DEVELOPING POLITICAL SYSTEMS

Political systems, governmental structures, political orientation and foreign policies of developing nations. Emphasis may be on Asia, Africa or Latin America. May be repeated for credit as subject matter changes.

310. GREEK, ROMAN AND MEDIEVAL POLITICAL THOUGHT

Political ideas from the time of the Greeks to the rise of the sovereign state in the 16th century and the ideas of Thomas Hobbes.

311. FOUNDATIONS OF MODERN POLITICAL THOUGHT

Major political ideas of the early modern period ranging from Machiavelli through Hobbes, Locke, Rousseau and Burke.

313. CONTEMPORARY POLITICAL THOUGHT

Contemporary political ideas and thinkers ranging from Hegel and Marx through Lenin, Gandhi and Mao.

314. AMERICAN POLITICAL THOUGHT

American political ideas from the colonial period to the present.

320. THE LEGISLATIVE PROCESS

Law-making processes in the United States and/or other selected political systems.

325. AMERICAN FOREIGN POLICY

Political analysis of American foreign policy with emphasis on foreign policy making in the nuclear age.

326. POLITICAL PARTIES AND INTEREST GROUPS

Organization, objectives, and activities of political parties and political interest groups and their functions in modern political systems.

327. PUBLIC LAW

Scope of public law, including basic concepts, methods, legal reasoning and behavior in the development of legal institutions.

328. JUDICIAL PROCESS

Process of judicial decision-making with emphasis on factors influencing that process and concepts of judicial roles.

330. STATE AND LOCAL POLITICS

Comparison of state and local political systems within the American Federal System. This course meets the State Code requirement in California state and local government.

340. SEX AND POLITICS

Emphasis will be on sex roles in traditional and modern political systems, sex stereotypes in politics; effects of changing technology on conventional male and female roles; dynamics of change affecting the woman's place in the political world.

342. THE POLITICS OF ENVIRONMENT

Environmental problems in their political context, including air, water, thermal and noise pollution, solid waste, population growth, resource management, and the political costs and benefits of environmental protection.

350. POLITICS OF BLACK AMERICA

Black liberation ideologies and attempts at their implementation within the American political system.

351. THE CHICANO AND POLITICS

Political factors affecting the contemporary Mexican-American community; involvement, organization and role of the individual in the political process.

380. SURVEY OF PUBLIC ADMINISTRATION

An introduction to the study of public administration, including a survey of the major functions, structures, behaviors, processes and problems. (Also offered as Administration 380. Students may not receive credit for both.)

400. INTERNATIONAL POLITICS

Selected theories and evolving patterns of international politics as developed within the nation-state system.

410. AMERICAN CONSTITUTIONAL LAW

Principles of the American Constitution as announced by the Supreme Court in selected cases. Judicial review, separation of powers, presidential power, federalism and commerce are included.

411. THE BILL OF RIGHTS

Limitation on federal and state power arising out of the provisions of the first eight and the 14th Amendments to the Constitution. Modern developments are stressed.

426. POLITICS OF PUBLIC ADMINISTRATION

Political aspects of public administration including the interaction of bureaucracies and administrators in a political environment and the policy-making functions of administrators.

428. FORMULATION OF PUBLIC POLICY

Basic approaches to public policy analysis, emphasizing interaction between substance and process in policy development.

431. THE AMERICAN PRESIDENCY

Office and institution of the presidency of the United States.

440. VOTING BEHAVIOR

Factors related to voting behavior and other forms of political involvement, including analysis and interpretation of electoral decisions.

446. POLITICAL BEHAVIOR

Research methods and approaches to research problems used in the analysis of political behavior. Includes: logic of inquiry, collection of data, analysis of data, and the interaction between theory and method.

450. POLITICAL SOCIALIZATION

Application of political theory and research to the political education and socialization of children. Major attention devoted to the problems of children's political orientations, their sources and formation.

202 / Political Science

484. INTERNATIONAL SECURITY AND DEFENSE STRATEGY

Relation of military strategy and changing arms technology to foreign policy. Consideration of military-diplomatic problems and international relations arising from advanced weapons technology in the nuclear age.

500. INTERNATIONAL LAW

Historical basis and present trends in the development of international law.

510. INTERNATIONAL ORGANIZATION

History, structure and dynamics of the United Nations and other multi-national organizations.

550. COMMUNITY POLITICS

Comparative analysis of local politics with emphasis on community structures, processes and policies.

560. INTERGOVERNMENTAL RELATIONS

Administrative and political dynamics of relationships among national, state and local units of government. *Prerequisite: senior standing.*

570. THE NATIONAL GOVERNMENT AND THE NATIONAL ECONOMY

Interaction of political and economic power illustrated through a review of major contemporary issues and activities in national affairs.

575. INTERNSHIP IN POLITICAL SCIENCE

Supervised work and study in public and private organizations. May be repeated once for credit. *Prerequisites: consent of instructor and department.*

580. SEMINAR IN PUBLIC POLICY

Political aspects of administrative systems with emphasis on public policy process in advanced and less developed countries.

590. SEMINAR IN INTERNATIONAL RELATIONS

Intensive study of some phase of foreign policy-making or international relations to be developed by instructor with class. May be repeated for credit, with consent of instructor.

592. SEMINAR IN GOVERNMENT

An intensive study of some phase of government to be developed by instructor with class. May be repeated for credit, with the consent of instructor.

595. INDEPENDENT STUDY

Special topics involving library and/or field research. *Prerequisites: departmental approval of written proposal of project and consent of instructor.* (Credit to be arranged: 2 to 5 units)

PSYCHOLOGY

The general objectives of the psychology program are to present the scientific and professional aspects of psychology to the undergraduate majoring in this field and to provide service courses as electives to the entire student population. The department also offers course work leading to the Master of Arts or the Master of Science in Psychology. Students intending to enroll in these programs or another graduate school will find that the undergraduate program provides an excellent base for entry into graduate training. Other majors may plan a paraprofessional career in counseling or related fields where graduate training may not be necessary.

Courses offered by the department range from the basic scientific courses such as experimental psychology, learning, perception and motivation to such applied courses as counseling and behavior modification. Laboratory and training facilities complement a wide variety of courses.

Requirements for the major: Psychology 100, 200, 300, 311, 498; one course chosen from 426, 451, 460, 465, 475, 485; four additional upper-division courses in psychology (Psychology 201 may be substituted for one of these four); and either Mathematics 150 or Psychology 210. The department offers alternatives for fulfilling some requirements with non-classroom study; see the departmental secretary for details.

Requirements for a minor in psychology: Psychology 100, 200, and at least four electives in psychology, three of which must be upper-division courses.

Departmental Honors. Departmental honors will be awarded upon graduation to students majoring in psychology who have earned a 3.8 or higher grade-point average in all psychology course work. Psychology majors who earn at least a 3.5 grade-point average in upper-division psychology course work may earn consideration for departmental graduation honors by fulfilling one of the following requirements: (1) author, or contribute significantly to the authorship of, an article accepted for publication in a major psychological journal, (2) score at or above the 90th percentile on the advanced psychology area test of the Graduate Record Examination, or (3) complete an acceptable undergraduate thesis. Satisfactory completion of requirements for departmental honors must be certified by the department chairman. Students must initiate the application for honors.

Master's Degrees: Applicants interested in the M.A. or M.S. programs in psychology should write to the department for current program description.

100. INTRODUCTION TO PSYCHOLOGY

A survey of the field of modern psychology.

200. ADVANCED GENERAL PSYCHOLOGY

Scientific study of behavior emphasizing the systematic development of principles. *Prerequisite:* Psychology 100.

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201. DEVELOPMENTAL PSYCHOLOGY

Introduction to the psychological development of the person. *Prerequisite: Psychology 100 or equivalent.*

210. PSYCHOLOGICAL STATISTICS

Introduction to statistical reasoning and application of basic statistical procedures in psychology. Includes both descriptive and inferential statistics with emphasis on parametric techniques.

300. METHODS OF PSYCHOLOGICAL INQUIRY

Introduction to those aspects of philosophy of science and methods of inquiry (introspection, naturalistic observation, case studies, laboratory experiments) as applied to procedures for obtaining and evaluating data in psychology. *Prerequisite: Psychology 200.*

311. INTRODUCTION TO EXPERIMENTAL PSYCHOLOGY

Design and execution of psychological research. Lecture and laboratory. *Prerequisites: Psychology 200, 300; and one of the following: Psychology 210, Mathematics 150 or Social Sciences 215.* (6 units)

325. PSYCHOLOGY OF INFANCY

Prenatal, neonatal and infant development. *Prerequisites: Psychology 100 and 201 or their equivalents.*

327. PSYCHOLOGY OF ADOLESCENCE AND AGING

Development of perception, learning, motivation and personality from puberty through old age. Adjustments to puberty, crisis periods in middle life, senescence and dying. *Prerequisites: Psychology 100 and 201 or equivalents.*

331. THE PSYCHOLOGY OF WOMEN

A critical study of theory and data on the psychological development of females; their attitudes, behaviors, psychopathologies, abilities and self-images. *Prerequisite: Psychology 100.*

337. PSYCHOLOGICAL DEVELOPMENT OF THE BLACK AMERICAN

Cognitive and affective development of the individual Black American. Includes survey of research which relates the total psychological functioning of the Black person to culturally distinct developmental patterns.

347. PSYCHOLOGICAL DEVELOPMENT OF THE CHICANO

Diverse psychological forces that affect the development of the individual Chicano. Includes survey of research which identifies specific aspects of psychological functioning, especially as psychological development relates to cultural differences.

349. HOMOSEXUALITY

Psychological factors that influence development and consequences of a homosexual orientation in both men and women. *Prerequisite: Psychology 100 or equivalent.*

351. BEHAVIOR MODIFICATION: PRINCIPLES AND APPLICATIONS

Analysis of the theory, techniques and ethics of behavior modification. *Prerequisite: Psychology 100 or consent of instructor.*

355. INDUSTRIAL PSYCHOLOGY

Practices of modern industrial and personnel psychology. Includes selection, placement, training, motivation, job analysis, evaluation and human factors. *Prerequisite: Psychology 100 or consent of instructor.*

358. COGNITIVE DEVELOPMENT

Survey of the major theories, issues and research in the development of perceptual and cognitive capacities from early childhood to adolescence. *Prerequisites: Psychology 100 and 201 or equivalents.*

360. COGNITIVE PSYCHOLOGY

Empirical study of complex human and animal behavior such as memory, problem solving and decision making. *Prerequisite: Psychology 200.*

365. COMPARATIVE PSYCHOBIOLOGY

An introduction to the study of animal behavior from a biological-psychological viewpoint. Particular emphasis will be placed on differentiating physiological, environmental and evolutionary determinants of behavior. *Prerequisite: Psychology 200 or consent of instructor.*

377. TESTS AND MEASUREMENTS

Administration of psychological tests and scales; interpretation and use of the data which they yield. *Prerequisites: Psychology 200 and one of the following: Psychology 210, Mathematics 150 or Social Sciences 215.*

382. PSYCHOLOGY OF SOCIAL BEHAVIOR

Major concepts, issues and psychological research regarding social influence on individual behavior. *Prerequisite: Psychology 100.*

384. PERSONALITY AND SOCIAL DEVELOPMENT

Development of personality, emotions and social behavior. *Prerequisites: Psychology 100 and 201 or equivalents.*

385. PERSONALITY

Survey of the major theories of personality. *Prerequisite: Psychology 100 or consent of instructor.*

387. COMMUNITY PSYCHOLOGY

Comprehensive study of the discipline of community psychology which emphasizes the relationship of community resources to individual mental health needs. *Prerequisite: Psychology 100 or equivalent.*

388. SPECIAL COMPREHENSIVE EXAMINATION IN PSYCHOLOGY CORE CURRICULUM

Independent study, without required classroom meetings, of the subject matter appropriate to three courses required for the major: Psychology 100, 200 and 300. *Prerequisite: consent of instructor.* Refer to Page 53 for comprehensive examination limitations. (15 units)

390. ABNORMAL PSYCHOLOGY

An introduction to psychopathology, emphasizing the major interpretations and treatments of emotional and behavioral disorders. *Prerequisite: Psychology 385 or equivalent.*

391. PSYCHOPATHOLOGY OF CHILDHOOD

Psychological and emotional disorders of children with special emphasis on diagnostic and clinical treatment. *Prerequisites: Psychology 100 and 201 or equivalents.*

426. EXPERIMENTAL PSYCHOLOGY: DEVELOPMENTAL

Selected research areas in the field of developmental psychology. Includes review of current literature and experimental techniques in developmental research. Lecture and laboratory. *Prerequisite: Psychology 311 or consent of instructor.*

451. EXPERIMENTAL PSYCHOLOGY: LEARNING AND MOTIVATION

Selected theories and research in areas of learning and motivation. Includes literature review and experimental analysis. Lecture and laboratory. *Prerequisite: Psychology 311.* (6 units)

456. PSYCHOLOGY OF HUMAN RESOURCES

Review of research in application of psychology to selection, evaluation and training of human resources. Topics include fair employment legislation, job analysis methodologies, merit evaluation, interviewing techniques and psychometric methods. (Also offered as Administration 456. Students may not receive credit for both.) *Prerequisites: Psychology 355 and one of the following: Psychology 210, Mathematics 150 or Social Sciences 215.*

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460. EXPERIMENTAL PSYCHOLOGY: PERCEPTION

Selected research areas in the fields of sensory and perceptual processes. Includes literature review and experimental analysis. Lecture and laboratory. *Prerequisite: Psychology 311.*

462. HUMAN FACTORS DESIGN

Principles of human factors engineering, design of the industrial environment and man-machine system development as applied to industrial, urban and services delivery systems. (Also offered as Administration 462. Students may not receive credit for both.) *Prerequisite: one of the following: Psychology 210, Administration 210, Mathematics 150 or Social Sciences 215.*

465. EXPERIMENTAL PSYCHOLOGY: PHYSIOLOGICAL

An introduction to the neural and endocrine processes underlying brain function and behavior. Lecture and laboratory. *Prerequisite: Psychology 311 or consent of instructor.*

475. EXPERIMENTAL PSYCHOLOGY: SOCIAL

Methods, theories and empirical results of experimental social psychology in selected areas such as group dynamics, social perception, communication and attitudes. Lecture and laboratory. *Prerequisite: Psychology 311 or Sociology 305.*

485. EXPERIMENTAL PSYCHOLOGY: PERSONALITY

Empirical study of personality theories and the relationship of personality to behavior. Lecture and laboratory. *Prerequisites: Psychology 311, 377 and 385.*

490. COUNSELING PSYCHOLOGY

Presentation of basic concepts, methods, and procedures pertaining to diagnostic and therapeutic activities of the counselor. *Prerequisites: Psychology 377, 390 and senior standing.*

498. HISTORY AND SYSTEMS OF PSYCHOLOGY

A senior-level course intended to provide students with a historical framework for integrating basic orientations in contemporary psychology. *Prerequisites: Psychology 311 and senior standing.*

519. SEMINAR IN APPLIED PSYCHOLOGY

Student-faculty participation in review and presentation of current areas in applied psychology. May be repeated for credit with consent of instructor. *Prerequisites: senior or graduate standing and consent of instructor.*

520. SEMINAR IN EXPERIMENTAL PSYCHOLOGY

Student-faculty participation in review and presentation of advanced research areas. May be repeated for credit with consent of instructor. *Prerequisites: senior or graduate standing and consent of instructor.*

542. NEUROSCIENCE

Integration of the basic principles of neurophysiology and psychobiology, with special attention to information transmission, at various levels in the organism, and interpretation of behavioral correlates. Lecture only. (Also offered as Biology 542. Students may not receive credit for both.) *Prerequisites: senior or graduate standing and consent of instructor.*

570. STATISTICAL ANALYSIS IN PSYCHOLOGICAL RESEARCH

Applications of statistical theory including regression analysis and nonparametric techniques to hypothesis testing in psychological research. Lecture and 1½ hours of laboratory. *Prerequisite: one of the following: Psychology 210, Mathematics 150 or Social Sciences 215, or consent of instructor.*

585. GROUP COUNSELING

Introduction to group counseling based on theories and methods derived from personality theory and social psychology. Includes study of theory and application of methods for facilitating group counseling. *Prerequisites: Psychology 490, senior standing and advanced written consent of instructor.*

595. INDEPENDENT STUDY

Special topics involving literature and/or experimental effort. *Prerequisites: departmental approval of written proposal of project and consent of instructor.* (Credit to be arranged: 2 to 5 units)

600-level courses are open to postbaccalaureate and graduate students only.

600. PROSEMINAR IN GENERAL PSYCHOLOGY I

A topical seminar covering major concepts and issues in the areas of social psychology, personality and learning.

602. PROSEMINAR IN GENERAL PSYCHOLOGY II

A topical seminar covering major concepts and issues in the areas of physiological psychology, developmental psychology and perception.

604. PROSEMINAR IN GENERAL PSYCHOLOGY III

A topical seminar covering major concepts and issues in the areas of clinical, community and comparative psychology.

610. ADVANCED METHODS IN PSYCHOLOGICAL RESEARCH

Various experimental designs used in psychological research and their relation to selected statistical procedures such as analysis of variance. *Prerequisite: Psychology 570 or equivalent or consent of instructor.*

611. ADVANCED INDEPENDENT STUDY

Advanced research on a specific topic selected by the student with the approval of the student's committee. May be repeated up to two times for credit with approval of the student's committee and the department chairman. *Prerequisites: Psychology 570 or Psychology 610 and classified status.* (Credit to be arranged: 2 to 5 units)

620. MASTER'S DEGREE PROJECT

Supervised field work, study and/or research contracted between the student and his/her committee to fulfill the M.S. degree requirement of a culminating experience for the student. *Prerequisites: classified status in the M.S. in Psychology program and satisfactory completion of Psychology 570 or 610 and Psychology 611.*

640. ADVANCED TOPICS IN NEUROSCIENCE

In-depth consideration of selected areas of neurophysiology and psychobiology. Lecture only. May be repeated for credit as topics change. (Also offered as Biology 640. Students may not receive credit for the same topic in both.) *Prerequisite: Psychology 542 or Biology 542.* (2½ units)

670. ADVANCED SEMINAR IN APPLIED PSYCHOLOGY

Advanced seminar on selected topics within applied psychology. May be repeated for credit as subject matter changes. *Prerequisite: classified graduate standing or consent of instructor.* (2½ units)

671. COUNSELING PRACTICUM I

Training in development of basic counseling skills. Lecture and laboratory. *Prerequisites: classified status in the M.S. in Psychology program and concurrent enrollment in Psychology 674A and 687A.*

672. COUNSELING PRACTICUM II

Training in counseling use and application of behavior modification skills. Lecture and laboratory. *Prerequisites: grade of A or B in Psychology 671 and concurrent enrollment in Psychology 674B and 687B.*

673. COUNSELING PRACTICUM III

Training in advanced counseling skills. Lecture and laboratory. *Prerequisites: grade of A or B in Psychology 672 and concurrent enrollment in Psychology 674C and 687C.*

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674. GROUP PSYCHOTHERAPY

Group experience for enhancement of self-awareness and professional growth. Graded credit/no credit. Corequisites: Psychology 671, 672 or 673 and Psychology 687A, 687B or 687C. A. (2 units) B. (2 units) C. (2 units)

680. ADVANCED SEMINAR IN EXPERIMENTAL PSYCHOLOGY

Advanced seminar on a selected topic within experimental psychology. May be repeated as subject matter changes. *Prerequisite: classified graduate standing or consent of instructor.* (2½ units)

682. ADULT ASSESSMENT

Training in methods of intellectual, vocational and personality assessment with adults. *Prerequisite: classified status in M.S. in Psychology program.*

683. CHILD ASSESSMENT

Training in methods of intellectual and personality assessment with children. *Prerequisite: classified status in M.S. in Psychology program.*

684. TOPICS IN COUNSELING PSYCHOLOGY

Selected topics within counseling psychology. May be repeated for credit as topic changes. *Prerequisites: Psychology 671, 672 and 673.*

687. INDEPENDENT CONSULTATION IN COUNSELING SKILLS

Individual consultation with staff concerning counseling skills development. Corequisite: concurrent enrollment in Psychology 671, 672 or 673. A. (2 units) B. (2 units) C. (2 units)

697. INTERNSHIP IN COUNSELING PSYCHOLOGY

Supervised counseling fieldwork in private or public mental health agencies. Designed to be taken three times (year long) for maximum 15 units of credit. Graded credit/no credit. *Prerequisites: classified status in the M.S. in Psychology program; Psychology 671, 672, 674A, 674B, 674C, 687A, 687B, 687C; and a grade of A or B in Psychology 673.* A. (5 units) B. (5 units) C. (5 units)

698. EXTENDED ENROLLMENT

Independent study leading to completion of requirements (other than course work) for the master's degree. Students enrolled in this course have full use of College facilities. *Prerequisites: advancement to candidacy and consent of department.* (0 units)

699. THESIS

Prerequisites: Psychology 570 and/or 610; Psychology 611; advancement to candidacy.

SOCIAL SCIENCES

Requirements for the major: a minimum of seven courses in one of the following fields, plus three courses each in two others: administration, anthropology, economics, geography, history, political science, psychology and sociology. Social Sciences 215, Sociology 210 or Psychology 210 may be chosen as part of the requirements for the principal field of concentration. A minimum of seven courses must be taken at the upper-division level.

In addition to the above listed fields, a student may choose an ethnic studies group of three courses as a supporting field. The courses must be selected from those listed as ethnic studies courses and which have a social sciences number or a number from a department within the School of Social and Behavioral Sciences. No course may be used in a supporting field which has been used in any other part of the social sciences major.

Upon enrolling as a social sciences major, the student will be assigned an advisor from the department of his concentration, at which time a program of study will be agreed upon by the student and his advisor. No more than seven courses may be selected from any one department. The program is filed in the student's permanent folder in the Admissions Office but is subject to revision by mutual consent. Each department participating in this program has a list of its courses suitable for students choosing this curriculum.

No more than one 15-unit special comprehensive examination may be applied to any field, either core or support field, and not more than two of these examinations may be used to meet the requirements of this major.

140. WORLD CIVILIZATIONS I, THE RISE OF CIVILIZATION

Activities of man from the beginning through the rise and diffusion of civilization in the era of Middle Eastern dominance to about 500 B.C.

142. WORLD CIVILIZATIONS II, THE CIVILIZATIONS OF THE EAST AND WEST

Major civilizations of the past, including the Graeco-Roman world, ancient India and China, the Byzantine and Arabic Empires, and Europe in the Middle Ages.

144. WORLD CIVILIZATIONS III, THE EXPANSION OF EUROPE

Rise to dominance of the European states and their impact throughout the world, 1500 A.D. to the present.

146. AMERICAN CIVILIZATION

Historical development of the fundamental values of the American culture and the influences of these in selected areas of American life. This course meets the state code requirement in United States history, constitution and American ideals.

150. CONTEMPORARY CIVILIZATION I

Political and economic systems and institutions of modern society and the issues confronting them. This course meets the State Code requirement in California state and local government.

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155. MINORITY GROUPS IN AMERICA

Black, Mexican-American and other minority groups as approached from the perspectives of history and the social sciences.

160. CONTEMPORARY CIVILIZATION II

Interpretation of contemporary society in the light of the knowledge and theories of sociology, anthropology and psychology.

165. REGIONS AND PEOPLES OF THE WORLD

Survey of major regions of the world using general physical and cultural concepts to explain patterns and problems of human activities in relation to natural environments.

215. STATISTICS FOR THE SOCIAL SCIENCES

Introduction to statistical methods as applied to the social and behavioral sciences. Includes both descriptive and inferential statistics. A self-paced independent study course.

220. INTRODUCTION TO CHICANO STUDIES

Life of the Mexican-American: his culture, history, socio-economics, politics, education, social stratification and family life.

250. INTRODUCTION TO BLACK STUDIES

Black studies in a variety of contexts: the historic pilgrimage of the Black man from Africa to America, the contemporary struggle of the Black man in America, the future of the Black man in America.

300. NONWESTERN WORLD

Historical, political, social, geographic and economic aspects of nonwestern societies.

304. CONTEMPORARY LATIN AMERICA

Social, economic and political conditions and institutions in contemporary Latin America.

312. CHRISTIANITY IN HISTORY AND SOCIETY

Origins of Christianity, the development of its doctrine and its impact on culture and society.

315. CULTURAL ADAPTATION: THE QUEST FOR SURVIVAL

An interdisciplinary inquiry into diverse cultural solutions to universal human problems. Topics include alternative cultural provisions for satisfying economic, social, political and religious needs.

321. URBANIZATION AND THE URBAN ENVIRONMENT

Patterns and processes of urban growth. Major emphasis on reasons for growth of cities; economic, social, political and structural changes in urban areas which accompany urbanization; and a cross-cultural analysis of urban problems.

412. PEASANT CULTURES IN THE MODERN WORLD

Village life in the developing countries, with special reference to their increasing involvement in the "revolution of rising expectations" and the new national, social, political and economic movements. A seminar course open to students in all majors.

415. RESEARCH METHODS IN BLACK STUDIES

Philosophy, methods and materials necessary for producing a scholarly paper in Black studies. Presentation of a research paper in the student's major field.

497. STUDIES IN SOCIAL SCIENCES

Application of social science methods to crucial issues in society. (2½ units)

499. METHODS AND MATERIALS IN THE TEACHING OF THE SOCIAL SCIENCES

May not be counted toward fulfilling requirements of courses in the major. *Prerequisites: Education 330, senior or graduate standing and admission to the teacher credential program.*

SOCIOLOGY

The sociology major offers a balanced program of study for students interested in pursuing graduate study or in the practical application of sociology. The curriculum is designed to expose the student to the scope and methods of sociology and to provide a broad educational background for understanding the structure and functioning of modern society.

Core requirements for the major are Sociology 100, 210 or equivalent, 305, 310 and 312. Also required are 30 additional quarter units in sociology, 25 of which must be upper-division. With the consent of the department advisor, 10 upper-division units in related fields may be substituted for course requirements in the major. By the end of their junior year, all sociology majors should have completed both Sociology 210 and 305. It is strongly recommended that students take these courses as soon as possible after declaring their major.

For those students interested in pursuing a career in social work, the department advises an alternative program incorporating the core courses as noted above plus Sociology 434, 436, 484 and 15 additional quarter units in sociology. It is recommended that Sociology 318 be included. Students should begin planning for such a program with the coordinator of social work before starting their junior year.

Offered within the sociology major is a program in ethnic studies, with an emphasis in Black studies or Mexican-American studies. In addition to the required core courses for the sociology major, the ethnic studies option requires 20 quarter units in either Black studies or Mexican-American studies, at least 10 units of which must be in sociology. (These 20 units of ethnic studies count as 20 of the required upper-division elective units for the sociology major.) An additional 10 quarter units in upper-division sociology are also required.

Students are free to construct individual programs through their choice of electives, or electives may be chosen to correspond to some of the recognized sub-divisions of sociology: social problems (200, 322, 330, 345, 352, 354, 355, 356, 410, 420, 434, 441); social psychology (339, 345, 354, 356, 360, 363, 364, 366, 435, 472); criminology (350, 352, 354, 357, 358, 359); urban sociology (322, 364, 410, 420, 430, 432, 438, 440, 441); social organization (340, 368, 380, 400, 401, 420, 432, 437, 438, 439, 440); sociological methods and theory (306, 360, 363, 400, 401, 405, 432, 440, 590); social work (318, 434, 436, 473, 480, 484); and ethnic studies (322, 340, 341, 342, 410, 440, 441, 442).

Requirements for the minor: 30 quarter units in sociology selected with the consent of a departmental advisor. Ten of these may be at the lower-division level.

Departmental Honors: Students majoring in sociology are eligible to receive honors in sociology at graduation if they have met the following: 3.5 GPA in all sociology courses attempted, at least half of all work attempted in sociology completed at this college, and recommendation for departmental honors by the sociology faculty.

As an adjunct to the curriculum, there are two student organizations for sociology majors. The Sociology Club has a varied program of social, community service and academically oriented activities. In addition to general sociology majors, students in criminal justice and students in social work actively participate in the club. A chapter of Alpha Kappa Delta, the sociology honor society, is open to junior sociology majors with a 3.5 GPA and to seniors and graduate students with a 3.0 GPA.

100. THE STUDY OF SOCIETY

Survey of the basic characteristics and dynamics of society and culture from the sociological perspective.

200. SOCIAL PROBLEMS

Social problems in modern industrial societies. Discussion of sociological research and theoretical propositions dealing with such problems as drug addiction, mental illness, war, abortion and sexual perversions.

210. SOCIOLOGICAL STATISTICS

Introduction to statistical methods as applied to the social and behavioral sciences. Includes both descriptive and inferential statistics. Emphasis on both parametric and nonparametric types of measures and analyses.

Prerequisite for upper-division courses is Sociology 100, or consent of instructor.

305. SOCIOLOGICAL RESEARCH AND ANALYSIS

Principles of research design, methods of data collection and analysis. *Prerequisite: Sociology 210, Social Sciences 215 or equivalent.*

306. SOCIOLOGICAL RESEARCH: SELECTED TOPICS

Supervised observation and study of selected populations, institutions and agencies as on-going social processes. May be repeated once for credit. *Prerequisite: consent of instructor.* Recommended: prior completion of Sociology 305.

310. HISTORY OF SOCIOLOGICAL THEORY

Historical development of classical sociological theory.

312. CONTEMPORARY SOCIOLOGICAL THEORY

Contemporary sociological theory, including an examination of origins, trends, schools and areas of controversy. *Prerequisite: Sociology 310.*

318. SOCIAL WELFARE POLICIES AND SERVICES

Historic and current social welfare policies and services. A comparative evaluation of the United States and other world programs, policy and expectations with emphasis on philosophy, values and ethics.

322. SOCIOLOGY OF THE GHETTO

Existing theories relating to ghetto life styles; the relationship of these to American society as a whole.

330. SOCIAL GERONTOLOGY

Age-status and age-roles in American society, with cross-cultural comparisons including intergenerational conflict and other age-related behaviors.

339. SOCIALIZATION

Theories, goals and processes of childhood socialization and, to a lesser extent, adult socialization. Emphasis on organized social roles as they are mediated through the norms and patterned interactions of institutions; that is, the family, peer groups and the schools.

340. SOCIOLOGY OF THE FAMILY

A systematic and comparative analysis of family structure and change: marriage, reproduction, child-rearing, marital problems.

341. MARRIAGE AND FAMILY AMONG BLACKS

Forces affecting the Black family, with emphasis on the roles assigned to individual members.

342. THE CHICANO FAMILY

Consideration of the traditional and changing Mexican-American family patterns. Regional and social class variations. Influence of the family on Mexican-American personality development from a social-psychological perspective.

345. SOCIOLOGICAL PERSPECTIVES ON WOMEN

Social positions, social roles and life-styles of women in society.

350. CRIMINOLOGY

Causes of crime with emphasis on sociological factors.

352. JUVENILE OFFENDER

Causes of juvenile delinquency, types of juvenile offenders, the juvenile court, legal aspects of delinquency and methods of rehabilitation.

354. DEVIANT BEHAVIOR

Deviant modes of human adjustment to modern society; processes of personal-social interaction in development of individual and group deviation.

355. MEDICAL SOCIOLOGY

Patient's self concept from the pre-patient stage to the post-patient state and the relationship to the social system. Developmental stages on the "sick role" in contemporary society are emphasized.

356. SOCIOLOGY OF MENTAL ILLNESS

Cultural variations in definitions of mental health and illness; social processes involved in defining, labeling and treating mental illness; stigmatizing effects of being labeled mentally ill; relationship of the incidence and treatment of mental illness to class, ethnicity and other sociological categories.

357. SOCIOLOGY OF LAW ENFORCEMENT

Sociological analysis of law enforcement systems and the police role, consideration of police discretion and differential implementation of the criminal law, problems affecting crime control and the interdependence of police and community.

358. SOCIOLOGY OF PUNISHMENT AND CORRECTIONS

History and theories of punishment and treatment in dealing with criminals, sociological analysis of institutional systems and community based systems, work release programs and pre-release guidance centers.

359. LAW AND SOCIETY

Social and cultural factors underlying the development, maintenance and change of law, legal structures and legal processes; comparative analysis of legal systems; and sociological consideration of the nature of justice.

360. SOCIAL PSYCHOLOGY

Interpersonal relations and communication with special reference to development of self, role behavior, attitudes, values and social norms.

363. SOCIOLOGY OF COMMUNICATION

Symbolic and organizational aspects of human communication systems including linguistic and non-linguistic means of communicating. Special attention will be devoted to attitudes and beliefs as influenced by interpersonal interaction and the mass media.

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364. PUBLIC OPINION AND PROPAGANDA

Nature and bases of public opinion; the social context of propaganda, its bases, its social psychological functions and the techniques of propagandists.

366. COLLECTIVE BEHAVIOR AND SOCIAL MOVEMENTS

Social psychological bases of crowd behavior, rumor, panic, riots, disasters and social movements; with a special emphasis on social movements.

368. SOCIOLOGY OF WORK AND THE PROFESSIONS

Development of occupational roles, with emphasis on specialization and mobility; impact of occupations on social institutions; special focus on the development of the professions.

380. SOCIOLOGY OF RELIGION

Theoretical analysis of religion as a social institution in complex societies. Structure and functioning of religious organizations, roles and role relationships; types of religious organizations and leadership; relationships of religion to other social institutions; religion and social change.

388. SPECIAL COMPREHENSIVE EXAMINATION IN SOCIOLOGY CORE CURRICULUM

Independent study, without required classroom meetings, of the subject matter appropriate to three courses required for the major: Sociology 310, 312 and 400. *Prerequisite: consent of instructor.* Refer to Page 53 for comprehensive examination limitations. (15 units)

400. SOCIAL CHANGE

Sources of change in societies; theories of social change, social conflict and the interpretation of social trends; social change and related problems in less-developed countries; processes and problems of planned change.

401. SOCIAL ORGANIZATION

Concepts and theories for analysis of social systems, for example, family, work group, community and bureaucracy; structural features of social systems, their interdependence and the relationship of the individual to social systems.

405. ADVANCED SOCIAL STATISTICS

Statistical techniques dealing primarily with multivariate analysis, tests of significance, tests for interaction, measures of association, regression analysis, factor analysis and path analysis. *Prerequisite: Sociology 210 or equivalent.*

410. RACIAL AND CULTURAL MINORITIES

Minority group status in contemporary American society.

420. POPULATION PROBLEMS

Social causes and consequences of population trends.

430. URBAN SOCIOLOGY

Nature, causes and consequences of urbanization; metropolitan areas; location and types of cities; social and demographic characteristics of urban populations.

432. POLITICAL SOCIOLOGY

Examination of political process from the perspective of sociology, exploring in depth the nature, distribution and exercise of power, and related areas of interest.

434. COMMUNITY ORGANIZATION

Programs of action, operative and proposed, for the organization of the community and the solution of its problems.

435. THE SOCIOLOGY OF SMALL GROUPS

Sociological analysis of the structure and processes of small groups, including the analysis of roles, interpersonal relations, group characteristics, and intergroup relations; examination of field and laboratory research on small groups.

436. GROUP DYNAMICS

Dynamics and principles involved in social group work, including psychotherapy groups.

437. COMPLEX ORGANIZATIONS

Sociological analysis of formal organizations (industrial, governmental, welfare, military, medical, educational, correctional) as systems of social interaction. Includes such topics as formal vs. informal structures, authority, decision-making, organizational innovation and development, role conflicts, communications and morale.

438. INDUSTRIAL SOCIOLOGY

Human relations in industry, both formal and informal, with special attention to problems of morale, productivity, decision-making and bureaucratic structure.

439. MILITARY SOCIOLOGY

The military institution—its functions and role in the modern state; socialization of its officers and men.

440. SOCIAL STRATIFICATION

Class, caste and other systems of social stratification with particular reference to the United States.

441. BLACK SOCIAL STRATIFICATION

Caste in America, comparison of Black and white stratification, Black social mobility.

442. CHICANO SOCIAL STRATIFICATION

Variables affecting the social status of the Mexican-American in society, Mexican-American social mobility, social class differences in Mexican-American communities.

472. SOCIAL ROLES AND SOCIAL INTERACTION

The nature of face-to-face contact and role behavior among persons in social interaction in everyday life. The relations between the social self, social roles and communication in the day-to-day activities of persons in informal groups, closed establishments and in public places.

473. INTERVIEWING IN SOCIAL WORK

Basic interviewing methodology and techniques utilized by social workers in communicating with people who are experiencing adjustment problems.

480. HUMAN GROWTH AND SOCIAL ENVIRONMENT

Ways in which societies lighten the conflicts of childhood with a promise of some security, identity and integrity.

484. SOCIAL CASEWORK

Process of problem solving used by social work agencies to help individuals to cope more effectively with their problems in social functioning.

488. SPECIAL COMPREHENSIVE EXAMINATION IN SOCIOLOGY ELECTIVES

Independent study, without required classroom meetings, of the subject matter appropriate to these three elective courses: Sociology 363, 364 and 366. *Prerequisite: consent of instructor.* Refer to Page 53 for comprehensive examination limitation. (15 units)

540. SOCIOLOGY OF EDUCATION

Sociological analysis of educational organizations; the relationship of such organizations to culture, social class and power; and the roles of teachers, students and administrators.

555. INDEPENDENT STUDY

Special topics involving library and/or field research. *Prerequisites: senior or graduate standing and consent of instructor.*

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575. INTERNSHIP IN SOCIOLOGY AND SOCIAL WORK

Supervised work and study in private or public organizations. May be repeated once for credit.
Prerequisites: consent of instructor and department.

590. SEMINAR IN SOCIOLOGY

An intensive study of some phase of sociology to be developed by the instructor with his class. May be repeated for credit with consent of instructor.

SPECIAL MAJOR

Occasionally, a student with special educational or vocational objectives may find that the existing degree programs of the College are inadequate and that a carefully structured, multidisciplinary program of study, drawn from the regular offerings of two or more departments, is more appropriate to his needs. The special major is designed to meet these needs.

The special major cannot be used simply to achieve breadth in an educational program, to substitute for a recognized degree program which the College is not authorized to offer, to bypass normal graduation requirements, nor as an alternative to completion of the degree requirements for a program in which the student is in academic difficulty.

In order to be admitted to the special major program, a student must submit a written request for approval to the Coordinator of Interdisciplinary Studies, stating his academic and professional reasons and outlining his proposed plan of study. In addition, the following regulations apply:

1. To be admitted to the special major program, the student must have more than one full year of academic work (45 quarter units) to complete to meet the minimum degree requirements for a bachelor's degree.
2. The plan of study must include at least 36 quarter units of upper-division course work.
3. No courses that are applied to the general education requirement of the College are applicable toward minimum requirements of the special major.

For information concerning the Master of Arts degree with a special major, contact the Associate Dean of Graduate Studies.

VOCATIONAL EDUCATION

The Bachelor of Vocational Education is an opportunity for vocational teachers with extensive occupational and professional experience to pursue a baccalaureate degree program in the School of Education at California State College, San Bernardino. The degree is made possible through legislation, commonly called the Swan Bill, which provides college credits for work experience in related fields. The degree can be awarded only to students who obtain the designated subjects teaching credential and an evaluation by the California State Board of Examiners for Vocational Teachers, either prior to or concurrent with the degree program. To qualify for the evaluation, the applicant must have seven years of full-time work experience and either two years of full-time or three years of part-time teaching experience, or equivalent.

Credits for the B.V.E., with a major in vocational arts, derive from: work experiences, teaching experiences, college courses and examinations.

Requirements for the B.V.E.:

Lower-division general education *	60 units
Upper-division general education	10 units
Major in vocational arts **	45 units
Designated subjects and education electives	40 units
Prescriptive electives	31 units
Total	186 units

* May be completed through an appropriate selection of courses at a community college or at CSCSB

** Up to 60 units will be awarded for work experience by the Swan Bill evaluation

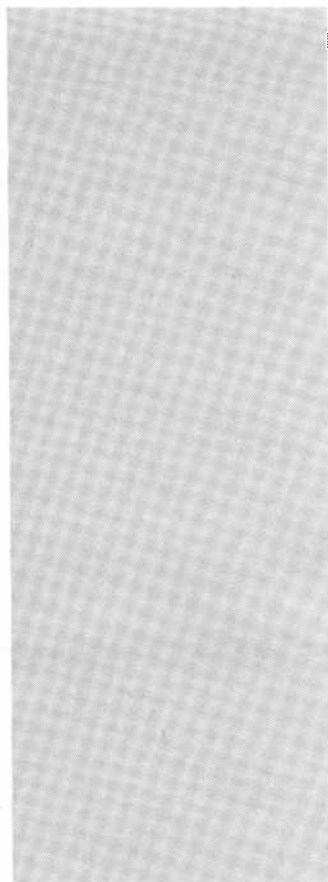
A major portion of the credit in vocational arts for work experience will be awarded by the Board of Examiners for Vocational Teachers upon application by the student (Swan Bill evaluation). The program requires a minimum of 20 upper-division units in the major. Based on the recommendation of the College's vocational education advisor, up to 18 units of the credit awarded by the board may be designated upper division. The remaining units in the vocational arts major are to be taken in regular courses, related to the student's specific interests, selected with the approval of the vocational education advisor. Courses in education may not be used in this portion of the degree program. In cases where the amount of credit awarded by the Board of Examiners for Vocational Teachers appears to be minimal, a student may be required to enroll in additional lower-division vocational arts courses in a community college.

Ordinarily a student will have obtained the designated subjects credential before enrolling in the B.V.E. degree program, but provisions can be made for concurrent completion. The credential may be awarded either by the University of California or by a campus of the California State University and Colleges. A

student should consult the School of Education for information about the credential program. The total degree-applicable credit allowed for the credential and electives in professional education is 40 units.

Additional courses required to meet graduation requirements must be chosen in consultation with the vocational education advisor from among courses and programs throughout the college except for professional education. Degree candidates are urged to use these prescriptive electives to develop a secondary educational objective—an academic major, an academic minor, a certificate or prerequisite work for graduate study. Courses transferred from another college which are not used elsewhere in the degree program may also be used as prescriptive electives.

Students under 25 years of age must present six units of physical education activity for graduation.



FACULTY 1977-78

William V. Ackerman, 1972

Associate Professor of Geography; Chairman, Department of Geography

B.A. 1966, M.A. 1968, University of Wyoming; Ph.D. 1972, Ohio State University.

Richard T. Ackley, 1974

Assistant Professor of Political Science; Associate Dean of Academic Administration

B.A. 1950, University of Southern California; M.A. 1969, University of Hawaii; Ph.D. 1973, University of Southern California.

George Akst, 1976

Lecturer in Mathematics

B.S. 1970, City College of the City University of New York; M.S. 1972, Ph.D. 1974, University of Illinois.

Gene L. Andrusco, 1977

Lecturer in Administration

B.S. 1972, M.B.A. 1975, California State University, Los Angeles.

Melvin William Aussieker, Jr., 1974

Assistant Professor of Administration

B.S. 1968, M.B.A., 1969, Ph.D. 1974, University of California, Berkeley.

Elliott R. Barkan, 1968

Professor of History

B.A. 1962, Queens College; M.A. 1963, Ph.D. 1968, Harvard University.

Ronald E. Barnes, Jr., 1965

Professor of Drama; Chairman, Department of Drama

B.S.Ed. 1951, University of Minnesota; Ph.D. 1963, Stanford University.

Sherrie R. Bartell, 1976

Lecturer in Education

B.S. 1964, Grand Canyon College; M.A. 1971, Ph.D. 1976, Arizona State University.

Joe Bas, 1968

Professor of Spanish

A.B. 1958, California State College, Long Beach; A.M. 1964, Ph.D. 1966, University of Southern California.

Frances F. Berdan, 1973

Assistant Professor of Anthropology; Chairman, Department of Anthropology

B.A. 1965, M.A. 1967, Michigan State University; Ph.D. 1975, University of Texas.

222 / Faculty

Anand R. Bhatia, 1972

Assistant Professor of Administration

B.Sc. 1957, M.E. 1961, Bombay University; B.S.E.E. 1964, Western States College of Engineering; M.B.A. 1966, D.B.A. 1975, University of Southern California.

Robert A. Blackey, 1968

Professor of History

B.A. 1963, City College of New York; M.A. 1964, Ph.D. 1968, New York University.

Marty Bloomberg, 1966

Librarian

B.A. 1960, Texas Christian University; M.A. 1961, University of Denver; M.A.T. 1968, University of Redlands.

Patricia Blumenthal, 1975

Lecturer in Psychology

B.A. 1964, Vassar College; M.A. 1966, Ph.D. 1974, University of Chicago.

Sheldon E. Bockman, 1973

Assistant Professor of Administration

B.A. 1958, M.A. 1960, University of Colorado; Ph.D. 1968, Indiana University.

Stephen A. Bowles, 1974

Associate Professor of Education; Dean of Continuing Education

B.A. 1960, University of Denver; M.A. 1964, University of Connecticut; Ph.D. 1972, University of California, Santa Barbara.

Peter M. Briscoe, 1973

Senior Assistant Librarian

B.A. 1964, University of California, Riverside; M.L.S. 1970, University of Hawaii.

Dominic M. Bulgarella, 1969

Associate Professor of Sociology

B.A. 1960, M.A. 1962, Ph.D. 1974, Michigan State University.

A. Vivien Bull, 1976

Lecturer in French

B.A. 1942, Cambridge University; M.A. 1973, University of New Mexico.

Michael R. Burgess, 1970

Assistant Librarian

A.B. 1969, Gonzaga University; M.S. in L.S. 1970, University of Southern California.

Donald F. Caetano, 1973

Assistant Professor of Sociology

B.A. 1965, M.A. 1968, Ph.D. 1971, University of California, Santa Barbara.

Lloyd E. Campbell, 1975

Assistant Professor of Education

B.A. 1967, University of Minnesota; M.A. 1970, Michigan State University; Ed.D. 1976, Indiana University.

Lawrence W. Cappel, 1974

Assistant Professor of Health Science

B.A. 1970, M.A. 1971, California State University, Humboldt; Ph.D. 1974, University of Utah.

John S. Chaney, 1972

Assistant Professor of Administration

B.S. 1966, University of Southwestern Louisiana; M.B.A. 1968, Ph.D. 1971, University of Texas.

Ralph James Charkins, 1976

Assistant Professor of Economics

B.A. 1966, University of Santa Clara; Ph.D. 1970, University of North Carolina.

C. Charles Christie, Jr., 1972

Associate Professor of Administration

B.A. 1967, M.P.A. 1969, California State College, Hayward; Ph.D. 1974, University of Southern California.

Stella Clark, 1971

Associate Professor of Spanish

B.A. 1964, University of Mississippi; M.A. 1966, Ph.D. 1971, University of Kansas.

K. Michael Clarke, 1976

Assistant Professor of Administration

B.A. 1969, M.A. 1970, University College Dublin; Ph.D. 1975, University of Georgia.

Wallace T. Cleaves, 1971

Associate Professor of Psychology

B.A. 1963, California State College, Hayward; M.A. 1966, California State College, Los Angeles; Ph.D. 1971, University of California, Riverside.

Gloria A. Cowan, 1973

Associate Professor of Psychology

B.A. 1959, University of Pennsylvania; M.S. 1961, Ph.D. 1964, Rutgers University.

John H. Craig, 1971

Associate Professor of Chemistry

B.S. 1964, George Washington University; Ph.D. 1969, Georgetown University.

James D. Crum, 1966

Professor of Chemistry; Dean, School of Natural Sciences

B.Sc. 1952, Ohio State University; M.Sc. 1953, Marshall University; Ph.D. 1958, Ohio State University.

Erma D. Davis, 1975

Assistant Professor of Education

B.Mus.Ed. 1959, Texas Southern University; M.Ed. 1971, Ph.D. 1975, Texas Women's University.

David L. Decker, 1971

Associate Professor of Sociology

B.A. 1967, St. Benedict's College; M.A. 1970, Kansas State University; Ph.D. 1975, University of Missouri, Columbia.

224 / Faculty

Rene F. Dennemeyer, 1966

Professor of Mathematics

A.B. 1948, M.A. 1949, Ph.D. 1956, University of California, Los Angeles.

Russell J. DeRemer, 1965

Associate Professor of Physics; Associate Dean, Activities and Housing

A.B. 1961, Occidental College; M.S. 1963, Ph.D. 1965, Indiana University.

Margaret S. Doane, 1976

Assistant Professor of English

B.A. 1970, University of Redlands; M.A. 1971, Northern Arizona University; Ph.D. 1976, University of Oregon.

G. Keith Dolan, 1967

Professor of Education

B.A. 1950, George Pepperdine College; M.Ed. 1952, Ed.D. 1961, University of California, Los Angeles.

Kathleen E. Douglas, 1976

Lecturer in Drama

B.A. 1972, Southwest Missouri State University; M.F.A. 1975, Stanford University.

Leo G. Doyle, 1971

Associate Professor of Art; Acting Chairman, Department of Art

B.F.A. 1969, M.F.A. 1971, Rochester Institute of Technology.

A. Mac Eaton, 1969

Associate Professor of Psychology

B.A. 1960, University of California, Berkeley; M.A. 1966, Ph.D. 1969, University of Chicago.

Alfred S. Egge, 1966

Professor of Biology

B.A. 1957, California State College, Long Beach; M.S. 1959, Ph.D. 1962, University of Arizona.

Amer El-Ahraf, 1973

Associate Professor of Health Science; Chairman, Department of Health Science and Human Ecology

D.V.M. 1962, Cairo University; M.P.H. 1965, Dr.P.H. 1971, University of California, Los Angeles.

Stuart R. Ellins, 1973

Assistant Professor of Psychology

A.B. 1967, University of Miami; M.A. 1970, Ph.D. 1972, University of Delaware.

William D. Engs, 1976

Assistant Professor of Administration

A.B. 1954, Harvard College; M.B.A. 1959, University of California, Berkeley; Ph.D. 1972, University of Oregon.

Edward J. Erler, 1975

Assistant Professor of Political Science

B.A. 1967, San Jose State University; M.A. 1969, Ph.D. 1973, Claremont Graduate School.

Paul E. Erzen, 1975

Associate Professor of Administration

B.A. 1949, University of Washington; M.B.A. 1962, University of Denver; M.S. 1965, Air Force Institute of Technology; Ph.D. 1969, Michigan State University.

Loren H. Filbeck, 1972

Assistant Professor of Music

B.A. 1964, M.A. 1968, Occidental College; D.M.A. 1975, University of Illinois.

John S. Fine, 1970

Assistant Professor of Sociology

B.A. 1961, University of Illinois; M.A. 1963, University of Michigan; Ph.D. 1970, University of Texas.

James J. Finley, 1973

Professor of Administration; Chairman, Department of Public Administration

B.S. in P.A. 1950, M.A. 1953, Ph.D. 1962, American University.

Marvin D. Frost, 1976

Assistant Professor of Geography

B.A. 1963, Chico State College; M.S. 1971, Ph.D. 1974, Oregon State University.

Catherine C. Gannon, 1976

Associate Professor of English; Associate Dean of Academic Planning

B.A. 1963, M.A. 1965, Ph.D. 1972, University of California, Los Angeles.

Ernest F. Garcia, 1968

Professor of Education; Acting Chairman, Teacher Education

B.A. 1955, University of California, Riverside; M.A. 1960, University of Redlands; Ed.D. 1966, University of California, Los Angeles.

Eugene Garver, 1974

Assistant Professor of Philosophy

B.A. 1965, Ph.D. 1973, University of Chicago.

William D. Gean, 1976

Assistant Professor of Philosophy

B.A. 1960, M.A. 1964, Ph.D. 1971, University of California, Berkeley.

Margaret K. Gibbs, 1975

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B.A. 1936, M.S. 1941, University of Southern California; Ph.D. 1974, Claremont Graduate School.

Bruce Golden, 1965

Associate Professor of English

B.S. 1955, Northwestern University; M.A. 1958, Ph.D. 1966, Columbia University.

Carol F. Goss, 1971

Associate Professor of Political Science

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226 / Faculty

Kathryn H. Gosse, 1975

Lecturer in Nursing

B.S. 1973, Loma Linda University.

J. Peter Graves, 1975

Assistant Professor of Administration

B.S. 1971, Ph.D. 1975, Brigham Young University.

Joseph W. Gray, 1969

Assistant Professor of Education

B.A. 1958, M.A. 1969, University of Redlands.

Frank L. Greitzer, 1976

Lecturer in Psychology

B.S. 1968, Harvey Mudd College; M.A. 1970, Ph.D. 1975, University of California, Los Angeles.

Chris C. Grenfell, 1975

Assistant Professor of Physical Education

A.B. 1971, San Diego State University; M.S. 1973, University of California, Los Angeles.

John E. Hafstrom, 1965

Professor of Mathematics

B.S. 1936, North Dakota State University; M.A. 1949, Ph.D. 1954, University of Minnesota.

Dalton Harrington, 1969

Associate Professor of Biology; Director, Desert Studies Center

B.A. 1961, University of Omaha; M.S. 1965, University of Missouri, Kansas City; Ph.D. 1969, University of Nebraska.

Arlo D. Harris, 1967

Associate Professor of Chemistry

B.S. 1961, University of Dayton; Ph.D. 1964, Tulane University.

John M. Hatton, 1967

Associate Professor of Psychology; Associate Dean, Counseling and Testing

B.A. 1961, University of Minnesota; Ph.D. 1965, Stanford University.

Melvin G. Hawkins, 1972

Associate Professor of Sociology

B.A. 1959, Morehouse College; M.S.W. 1963, Atlanta University; Ph.D. 1977, United States International University.

John W. Heeren, 1971

Associate Professor of Sociology

A.B. 1966, M.A. 1968, University of California, Riverside; Ph.D. 1975, Duke University.

David K. Hendricksen, 1975

Assistant Professor of Health Science

B.S. 1965, Buena Vista College; Ph.D. 1970, Kansas University; M.D. 1975, Kansas University Medical School.

Philip L. Herold, 1970

Associate Professor of Psychology

B.A. 1966, M.A. 1968, San Jose State College; Ph.D. 1974, Claremont Graduate School.

Charles D. Hoffman, 1974

Assistant Professor of Psychology

B.S. 1967, Ph.D. 1972, Adelphi University.

Jack T. Hogue, 1976

Assistant Professor of Administration

B.B.A. 1972, M.B.A. 1974, University of Georgia.

H. Arthur Hoverland, 1972

Professor of Administration; Dean, School of Administration

B.S. 1951, Miami University; M.S. 1954, University of Illinois; Ph.D. 1963, University of Michigan.

Charlotte C. Iiams, 1975

Lecturer in Education

A.B. 1951, University of California, Berkeley; M.A., 1970, University of Idaho.

Dennis L. Ikenberry, 1965

Professor of Physics

B.A. 1961, Occidental College; M.A. 1965, Ph.D. 1965, University of California, Riverside.

Harold J. Jambor, 1975

Lecturer in Sociology

B.A. 1935, Reed College; M.A. 1939, University of Chicago; D.S.W. 1965, University of Southern California.

Joseph T. Janczyk, 1976

Assistant Professor of Economics

B.A. 1970, State University of New York at Buffalo; Ph.D. 1976, University of California, Riverside.

Jorun B. Johns, 1965

Associate Professor of German; Chairman, Department of Foreign Languages and Literatures

Ph.D. 1956, University of Vienna.

Dorothy Johnson, 1976

Professor of Nursing; Chairman, Department of Nursing

B.S. 1956, University of California, Berkeley; M.S.N. 1957, Yale University; M.P.H. 1967, Dr. P.H. 1975, University of California, Los Angeles.

Paul J. Johnson, 1966

Professor of Philosophy; Chairman, Department of Philosophy

A.B. 1961, University of Chicago; M.A. 1963, Ph.D. 1969, The Johns Hopkins University.

Phylliss F. Jones, 1976

Assistant Professor of Nursing

B.S. 1973, M.S. 1975, Loma Linda University.

228 / Faculty

Lee H. Kalbus, 1965

Professor of Chemistry; Associate Dean of Academic Planning for Graduate Studies
B.S.Ed. 1950, Wisconsin State University; Ph.D. 1954, University of Wisconsin.

David A. Kantorowitz, 1975

Assistant Professor of Psychology
B.A. 1971, State University of New York at Buffalo; M.A. 1974, Ph.D. 1976, Rutgers University.

Julius David Kaplan, 1977

Associate Professor of Art
B.A. 1963, Wesleyan University; M.A. 1965, Ph.D. 1972, Columbia University.

Jill H. Kasen, 1976

Assistant Professor of Sociology
B.A. 1970, Douglass College.

Frederick W. Keene, 1976

Lecturer in Mathematics
S.B. 1967, Massachusetts Institute of Technology; M.A. 1972, Ph.D. 1974, University of California, Berkeley.

Charles F. Kellers, 1968

Professor of Physics; Chairman, Department of Physics
B.A. 1953, Swarthmore College; Ph.D. 1960; Duke University.

Rauf A. Khan, 1976

Associate Professor of Administration
B.S. 1958, Montana State University; M.B.A. 1967, University of Montana; D.B.A. 1973, University of Colorado.

Brij B. Khare, 1968

Professor of Political Science; Chairman, Department of Political Science
B.S. 1953, Agra, India; M.S. 1959, University of Toronto; M.A. 1963, Ph.D. 1968, University of Missouri, Columbia.

Nikolai E. Khokhlov, 1968

Professor of Psychology
M.A. 1967, Ph.D. 1968, Duke University.

Adria F. Klein, 1976

Lecturer in Education
B.A. 1968, George Peabody College; M.A. 1970, West Virginia University.

Shirley A. Koeller, 1975

Lecturer in Education
B.A. 1956, University of California, Berkeley; M.A. 1971, Ph.D. 1976, University of Colorado.

Helene W. Koon, 1970

Associate Professor of English; Chairman, Department of English
B.F.A. 1946, University of Iowa; M.A. 1948, Pasadena Playhouse; M.A. 1965, Immaculate Heart College; Ph.D. 1969, University of California, Los Angeles.

Larry L. Kramer, 1968

Associate Professor of English

B.A. 1961, M.A. 1963, Ohio State University; M.F.A. 1968, The University of Iowa.

Nathan Kravetz, 1976

Professor of Education; Dean, School of Education

B.Ed. 1941, M.A. 1949, Ed.D. 1954, University of California, Los Angeles.

Jerome C. Langham, 1976

Lecturer in Administration

B.A., 1964, M.B.A. 1969, Michigan State University.

Robert A. Lee, 1968

Professor of English, Associate Dean of Academic Affairs

B.A. 1961, University of California, Riverside; Ph.D. 1966, University of Oregon.

Margaret Lenz, 1970

Associate Professor of Education

B.A. 1951, M.Ed. 1957, University of California, Los Angeles; Ph.D. 1972, Claremont Graduate School.

Denis R. Lichtman, 1969

Associate Professor of Mathematics

B.A. 1959, University of Pittsburgh; M.A. 1963, Ph.D. 1968, University of Washington.

Donald B. Lindsey, 1973

Assistant Professor of Sociology; Coordinator, Criminal Justice

B.S. 1970, M.S. 1971, Ph.D. 1973, University of Utah.

Roger P. Lintault, 1969

Professor of Art

B.S. 1960, State University of New York; M.F.A. 1962, Southern Illinois University.

Marsha B. Liss, 1976

Assistant Professor of Psychology

B.A. 1971, Barnard College; Ph.D. 1976, State University of New York at Stony Brook.

Fook Fah Liu, 1970

Associate Professor of Physics

B.Sc. 1956, Presidency College, India; Ph.D. 1962, Purdue University.

Cherie Lohr, 1976

Lecturer in Education

B.A. 1966, Mt. St. Joseph College; M.Ed. 1974, Ph.D. 1976, Miami University.

Janice L. Loutzenhiser, 1976

Assistant Professor of Administration

B.A. 1970, University of Southern California; M.A. 1972, George Washington University; J.D. 1975, University of Virginia.

230 / Faculty

Ward M. McAfee, 1965

Professor of History; Dean, School of Social and Behavioral Sciences
A.B. 1961, M.A. 1962, Ph.D. 1965, Stanford University.

John F. McDonnell, 1969

Associate Professor of Administration; Chairman, Department of Business Administration
B.S. 1955, Bowling Green State University; M.B.E. 1967, Ph.D. 1974, Claremont Graduate School.

Sarojam Mankau, 1968

Associate Professor of Biology
B.A. 1949, Women's Christian College, India; M.S. 1952, Ph.D. 1956, University of Illinois.

Kenneth A. Mantei, 1968

Associate Professor of Chemistry; Chairman, Department of Chemistry
A.B. 1962, Pomona College; Ph.D. 1967, Indiana University.

Carolyn A. Martin, 1974

Assistant Professor of Physical Education
B.S. 1968, Lincoln University; M.A. 1974, California State Polytechnic University, Pomona.

E. Clark Mayo, 1967

Associate Professor of English
B.A. 1960, Brown University; B.D. 1963, Union Theological Seminary; M.A. 1965, Ph.D. 1971, University of Chicago.

Thomas M. Meisenhelder, 1975

Assistant Professor of Sociology
B.A. 1968, Wake Forest University; M.A. 1972, Ph.D. 1975, University of Florida.

Linda D. Miller, 1974

Assistant Librarian
B.A. 1971, University of Delaware; M.L.S. 1974, Rutgers University.

Mary L. Minns, 1975

Assistant Professor of Nursing
B.S. 1971, M.S. 1976, Loma Linda University.

Kenton L. Monroe, 1965

Professor of Psychology; Dean of Students
B.A. 1959, University of Oregon; M.S. 1963; Ph.D. 1964, Purdue University.

Arthur Moorefield, 1973

Associate Professor of Music; Chairman, Department of Music
B.M. 1950, Cincinnati Conservatory; M.A. 1958, New York University; Ph.D. 1965, University of California, Los Angeles.

Joseph R. Moran, 1972

Assistant Professor of Art
B.A. 1970, University of California, Riverside; M.F.A. 1972, Claremont Graduate School.

Bernhardt L. Mortensen, 1968

Associate Professor of Sociology

A.B. 1937, University of California, Los Angeles; M.A. 1962, California State College, Los Angeles; Ph.D. 1970, University of California, Los Angeles.

Richard L. Moss, 1973

Assistant Professor of Economics; Chairman, Department of Economics

B.A. 1963, University of Minnesota; M.A. 1970, Ph.D. 1973, University of New Mexico.

Jay D. Moxley, 1976

Lecturer in Physical Education

B.A. 1964, M.A. 1971, California State College, Los Angeles.

Jan Mrozinski, 1976

Lecturer in Art

B.Ed. 1971, Toledo University; M.F.A. 1976, Pennsylvania State University.

Thomas P. Mullen, 1975

Assistant Professor of Education

B.A. 1960, Whittier College; M.A. 1970, Ph.D. 1971, University of Minnesota.

James L. Murphy, 1970

Associate Professor of Mathematics

B.A. 1964, University of Detroit; M.S. 1966, Ph.D. 1970, Michigan State University.

Arthur Nelson, 1963

Director of Library

B.A. 1950, St. Thomas College; M.A. 1951, M.A.L.S. 1956, University of Minnesota.

Frederick A. Newton, 1975

Assistant Professor of Psychology

B.S. 1967, St. Peter's College; M.S. 1970, Villanova University; Ph.D. 1975, University of Houston.

Robert M. O'Brien, 1974

Assistant Professor of Sociology

B.A. 1967, Pomona College; M.A. 1970, Ph.D. 1973, University of Wisconsin.

Christopher O'Hare, 1975

Assistant Professor of Psychology

B.A. 1963, University of Rochester; M.A. 1970, Ph.D. 1975, University of California, Los Angeles.

Enrique G. Ojembarrena, 1977

Lecturer in Spanish

Bachiller Superior 1962, Universidad de Valladolid; M. in Law 1967, Universidad de Bilbao; Ph.D. 1976, University of Colorado.

Walter C. Oliver, 1969

Associate Professor of Spanish

B.A. 1963, New Mexico State University; M.A. 1966, Ph.D. 1970, University of New Mexico.

232 / Faculty

Clifford T. Paynton, 1968

Professor of Sociology

B.A. 1958, Seattle Pacific College; M.A. 1962, Ph.D. 1964, University of Washington.

Dennis M. Pederson, 1970

Associate Professor of Chemistry

B.S. 1962, University of Puget Sound; Ph.D. 1968, Purdue University.

Stuart M. Persell, 1967

Associate Professor of History

B.A. 1962, University of California, Santa Barbara; M.A. 1963, Ph.D. 1969, Stanford University.

James De Fondo Person, 1976

Lecturer in Education

B.A. 1968, State University College at Buffalo; M.Ed. 1973, State University of New York at Buffalo; Ph.D. 1974, University of Pittsburgh.

Ralph H. Petrucci, 1964

Professor of Chemistry; Dean of Academic Planning

B.S. 1950, Union College; Ph.D. 1954, University of Wisconsin.

Kathy Pezdek, 1975

Assistant Professor of Psychology

B.S. 1971, University of Virginia; M.S. 1972, Ph.D. 1975, University of Massachusetts.

John M. Pfau, 1962

Professor of History; President

A.B. 1947, A.M. 1948, Ph.D. 1951, University of Chicago.

Thomas J. Pierce, 1976

Assistant Professor of Economics

B.A. 1971, La Salle College; M.A. 1975, Ph.D. 1976, University of Notre Dame.

James C. Pierson, 1971

Associate Professor of Anthropology

B.A. 1965, M.A. 1969, Sacramento State College; Ph.D. 1972, Washington University.

Robert E. Pratt, 1975

Assistant Professor of Education

B.S. 1962, University of Minnesota; M.A. 1968, Arizona State University; Ph.D. 1974, University of Connecticut.

Gregory L. Price, 1971

Assistant Professor of Physical Education

B.S. 1969, Fort Hays Kansas State College; M.S. 1972, California State College, Long Beach.

H. Stephen Prouty, Jr., 1964

Associate Dean, Admissions and Records

B.S. 1957, M.S. 1960, Kansas State University, Manhattan.

Donald F. Putnam, 1976

Associate Professor of Administration

B.S.B.A. 1962, Babson College; M.B.A. 1969, University of California, Los Angeles; M.B.E. 1974, Ph.D. 1976, Claremont Graduate School.

Johnnie Ann Ralph, 1971

Associate Librarian

B.A. 1967, M.A. 1969, University of California, Riverside; M.L.S. 1970, University of Kentucky.

Donald R. Ranish, 1976

Lecturer in Political Science

B.A. 1970, California State University, Fullerton; M.A. 1972, Ph.D. 1975, University of California, Santa Barbara.

Gary R. Ray, 1974

Assistant Professor of Administration

B.A. 1965, M.A. 1972, Ph.D. 1976, University of California, Santa Barbara.

Jerome B. Reed, 1976

Associate Professor of Administration

B.S. 1953, M.S. 1954, Massachusetts Institute of Technology; M.B.A. 1970, M.S. 1972, M.A. 1976, Ph.D. 1976, Stanford University.

Tom M. Rivera, 1972

Associate Dean, Special Services

B.A. 1962, M.A. 1968, California State University, Los Angeles; Ed.D. 1973, University of California, Los Angeles.

Robert R. Roberts, 1963

Professor of History

A.B. 1942, Whitman College; M.A. 1947, Ph.D. 1952, University of Chicago.

J. Cordell Robinson, 1971

Associate Professor of History

B.A. 1963, Columbia Union College; M.A. 1968, Ph.D. 1971, Indiana University.

James G. Rogers, 1974

Associate Professor of Administration

A.B. 1949, Yale University; M.S. 1963, M.A. 1970, Ph.D. 1974, University of California, Los Angeles.

Tennes M. Rosengren, 1975

Associate Professor of Education

B.A. 1963, M.A. 1966, M.A. 1968, Ph.D. 1972, Arizona State University.

George E. Roth, 1972

Assistant Professor of Anthropology

B.A. 1962, Reed College; M.A. 1966, University of Chicago; Ph.D. 1976, Northwestern University.

234 / Faculty

Richard H. Rowland, 1975

Assistant Professor of Geography

B.A. 1965, San Diego State University; Ph.D. 1971, Columbia University.

Amanda Sue Rudisill, 1969

Associate Professor of Drama

B.S. 1964, Millersville State College; M.A. 1966, Pennsylvania State University; Ph.D. 1972, Northwestern University.

Mireille G. Rydell, 1968

Professor of French

Licence 1950, University of Bordeaux; M.A. 1958, Ph.D. 1968, University of Minnesota.

Judith M. Rymer, 1970

Associate Professor of Education; Chairman, Special Programs

B.S. in Ed. 1961, Miami University; M.A. 1966, University of Kansas; Ph.D. 1970, Ohio State University.

Richard S. Saylor, 1968

Professor of Music

B.S. 1950, B.M. 1955, Ithaca College; M.M. 1958, University of Michigan; D.M.A. 1966, Stanford University.

Gerald M. Scherba, 1962

Professor of Biology; Vice President for Academic Affairs

B.S. 1950, M.S. 1952, Ph.D. 1955, University of Chicago.

Kent M. Schofield, 1966

Professor of History; Chairman, Department of History

B.A. 1961, University of California, Riverside; M.A. 1962, Claremont Graduate School; Ph.D. 1966, University of California, Riverside.

Peter R. Schroeder, 1967

Associate Professor of English

A.B. 1962, Stanford University; M.A. 1963, Ph.D. 1967, Harvard University.

Robert A. Schwabe, 1969

Director of Institutional Research

B.A. 1953, Denison University; M.A. 1958, Syracuse University; Ph.D. 1969, University of California, Riverside.

Cuthbert L. Scott, III, 1973

Assistant Professor of Administration

B.A. 1968, M.S. 1970, Southern Illinois University; Ph.D. 1975, University of Oregon.

Maria N. Senour, 1973

Assistant Professor of Education

B.A. 1964, Marygrove College; M.Ed. 1968, University of Toledo; Ph.D. 1972, Wayne State University.

Robert A. Senour, 1970

Associate Professor of Education; Director of Audiovisual Services

B.A. 1957, Ohio State University; M.Ed. 1966, Ph.D. 1970, Wayne State University.

Michael F. Sheehan, 1977

Lecturer in Economics

B.S. 1972, M.A. 1973, University of California, Riverside.

David Shichor, 1976

Lecturer in Sociology

B.A. 1962, Hebrew University; M.A. 1966, California State University, Los Angeles; Ph.D. 1970, University of Southern California.

Richard A. Siegel, 1975

Lecturer in English

B.A. 1969, San Francisco State University; M.A. 1971, Ph.D. 1973, University of Connecticut.

Michael Simmons, 1971

Associate Professor of Anthropology

B.S. 1962, Columbia University; M.A. 1966, Ph.D. 1970, University of Arizona.

William L. Slout, 1968

Professor of Drama

B.A. 1949, Michigan State University; M.S. 1950, Utah State University; Ph.D. 1970, University of California, Los Angeles.

Robert A. Smith, 1965

Professor of History; Coordinator of Interdisciplinary Programs

B.Ed. 1941, Southern Illinois University; M.A. 1946, Ph.D. 1950, University of Illinois.

Alexander Sokoloff, 1965

Professor of Biology

A.B. 1948, University of California, Los Angeles; Ph.D. 1954, University of Chicago.

Arlette S. Solomon, 1976

Lecturer in Art

B.A. 1946, Brooklyn College; M.A. 1973, University of California, Los Angeles.

Neville Spencer, 1968

Associate Professor of Mathematics

B.A. 1962, University of Texas; M.A. 1965, University of Southern California; Ph.D. 1972, University of California, Riverside.

Gordon E. Stanton, 1968

Professor of Education

B.A. 1948; M.A. 1952, Ed.D. 1967, University of California, Los Angeles.

Robert G. Stein, 1967

Associate Professor of Mathematics; Chairman, Department of Mathematics

B.A. 1961, Harvard College; M.A.T. 1962, Wesleyan University; M.A. 1967, Dartmouth College; Ph.D. 1975, University of Texas.

236 / Faculty

Timothy P. Strong, 1976

Lecturer in Music

B.Mus. 1969, M.Mus. 1971, University of Texas.

P. Richard Switzer, 1970

Professor of French; Dean, School of Humanities

A.B. 1947, A.M. 1948, University of Chicago; Ph.D. 1955, University of California, Berkeley.

Ellen L. Taylor, 1974

Assistant Professor of Biology

B.A. 1963, University of Vermont; Ph.D. 1969, University of Pennsylvania.

James D. Thomas, 1968

Professor of Political Science; Dean of Academic Administration

B.S.F.S. 1955, Georgetown University; M.S. 1961, Ph.D. 1965, Claremont Graduate School.

Joseph K. Thomas, 1965

Professor of Education; Vice President for Administration

B.S. 1943, Washington State University; M.S. 1949, University of Southern California; Ed.D. 1957, University of Missouri, Columbia.

Elton N. Thompson, 1968

Professor of Education

A.B. 1941, San Jose State College; M.A. 1949; Ed.D. 1967, Stanford University.

John Tibbals, 1968

Associate Librarian

B.A. 1965, University of California, Santa Barbara; M.S. in L.S. 1966, University of Southern California.

Lee Rickles Tilman, 1976

Assistant Professor of Administration

B.S. 1961, Oregon State University; M.A. 1963, Ph.D. 1966, University of Arizona.

Steven R. Wagner, 1974

Associate Professor of Education

B.A. 1964, San Jose State University; M.A. 1968, San Fernando Valley State College; Ph.D. 1973, Claremont Graduate School.

Carl P. Wagoner, 1969

Associate Professor of Sociology; Chairman, Department of Sociology

B.S. 1960, Ball State University; M.A. 1964, Ph.D. 1971, Indiana University.

Jeffrey B. Walker, 1976

Lecturer in English

B.S. 1968, Shippensburg State College; M.A. 1971, Middlebury College; Ph.D. 1976, Pennsylvania State University.

William Warehall, 1973

Assistant Professor of Art

B.F.A. 1968, Wayne State University; M.F.A. 1971, University of Wisconsin.

Lynda W. Warren, 1973

Assistant Professor of Psychology; Chairman, Department of Psychology

B.A. 1964, College of William and Mary; Ph.D. 1970, University of Minnesota.

George A. Weiny, 1967

Professor of Physical Education; Chairman, Department of Physical Education and Recreation

B.A. 1957, Iowa Wesleyan College; M.A. 1962, State University of Iowa.

Florence Weiser, 1974

Lecturer in Chemistry; Assistant Dean of Academic Administration

B.A. 1946, Brooklyn College; M.A. 1948, Indiana University.

Robert L. West, 1966

Professor of Education

B.A. 1948, Willamette University; M.A. 1949, Ed.D. 1955, Stanford University.

Edward M. White, 1965

Professor of English

B.A. 1955, New York University; M.A. 1956, Ph.D. 1960, Harvard University.

Alice K. Wilson, 1969

Senior Assistant Librarian

A.B. 1937, University of Dubuque; M.L.S. 1968, University of California, Los Angeles.

Ruth C. Wilson, 1971

Associate Professor of Biology; Chairman, Department of Biology

B.A. 1961, M.A. 1964, California State College, Los Angeles; Ph.D. 1971, Claremont Graduate School.

Alvin Wolf, 1975

Assistant Professor of Education

B.S. 1957, M.A. 1964, University of San Francisco; Ph.D. 1972, University of California, Berkeley.

Don Woodford, 1972

Associate Professor of Art

B.A. 1963, Cornell College; M.A. 1964, Illinois State University; M.F.A. 1965, University of Wisconsin.

Donald C. Woods, 1968

Counselor and Test Officer

B.A. 1943, University of California, Los Angeles; B.D. 1948, Garrett Theological Seminary; M.A. 1951, Ph.D. 1956, University of Chicago.

Joseph K. Yabu, 1975

Assistant Professor of Education

A.B. 1965, M.A. 1970, California State University, Los Angeles; Ph.D. 1974, University of Maryland.

EMERITUS FACULTY

Robert G. Fisk, Professor of Education, Emeritus, 1973

Robert R. Harrison, Professor of Art, Emeritus, 1972

Charles V. Hartung, Associate Professor of English, Emeritus, 1977

C. Michael O'Gara, Professor of Physical Education, Emeritus, 1977

SPECIAL APPOINTMENTS

Bruce F. Anderson, 1972

Studio Music Instructor

B.M. 1972, University of Redlands.

Marie Astor, 1967

Studio Music Instructor

Master Certificate 1951, Luzern; L.R.A.M. 1958, Royal Academy of Music.

John R. Barrett, 1970

Studio Music Instructor

Edward P. Casem, 1967

Studio Music Instructor

B.A. 1967, California State College, Fullerton; M.A. 1975, Claremont Graduate School.

Dan Delahoyde, 1972

Studio Music Instructor

B.A. 1969, University of Redlands.

Lily Pan Diehl, 1975

Studio Music Instructor

B.M. 1966, Santa Isabel College; M.M.Ed. 1968, Andrews University; M.M. 1970, University of Michigan.

Karlin Eby, 1976

Studio Music Instructor

B.A. 1957, University of Washington; M.M. 1963, University of Oregon.

Clabe Hangan, 1975

Studio Music Instructor

B.A. 1960, University of Redlands.

Lawrence Johansen, 1976

Studio Music Instructor

B.A. 1967, Fresno State University; M.M. 1972, University of Southern California.

Clifford Keating, 1975

Studio Music Instructor

B.M.E. 1971, Indiana University; M.A. 1974, Teachers College, Columbia University.

Catherine Graff MacLaughlin, 1976

Studio Music Instructor

B.A. 1962, University of California, Berkeley.

Paul Oxley, 1975

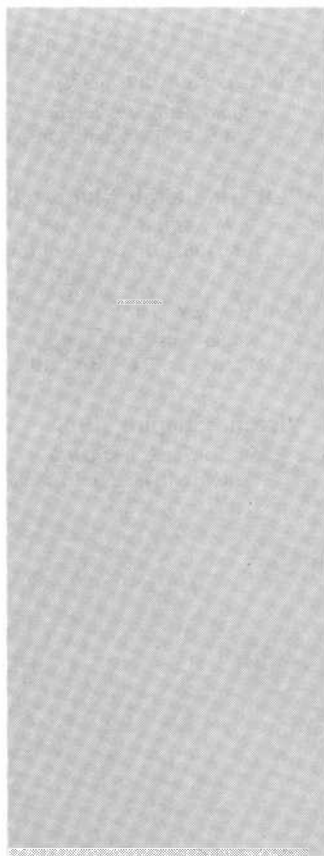
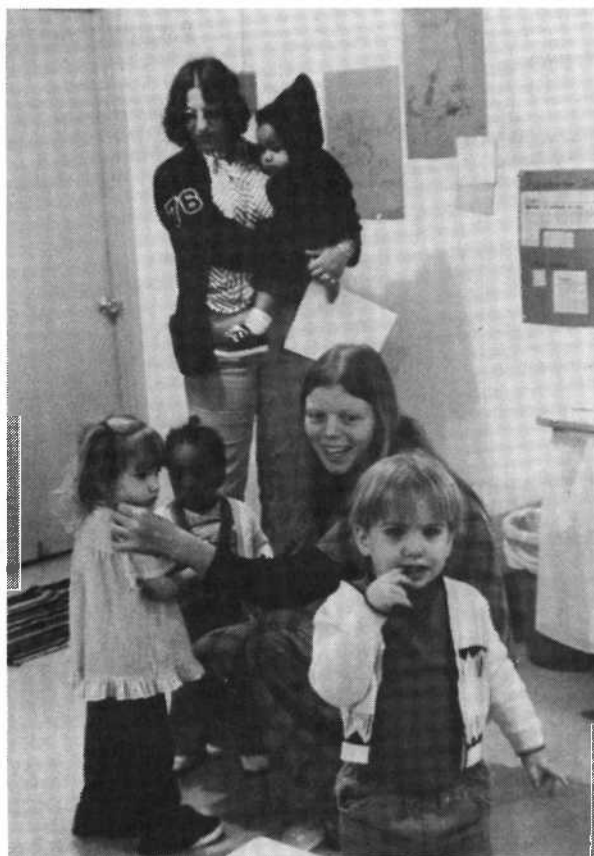
Studio Music Instructor

B.Mus.Ed. 1947, M.M. 1952, Northwestern University.

Victoria Shapiro, 1967

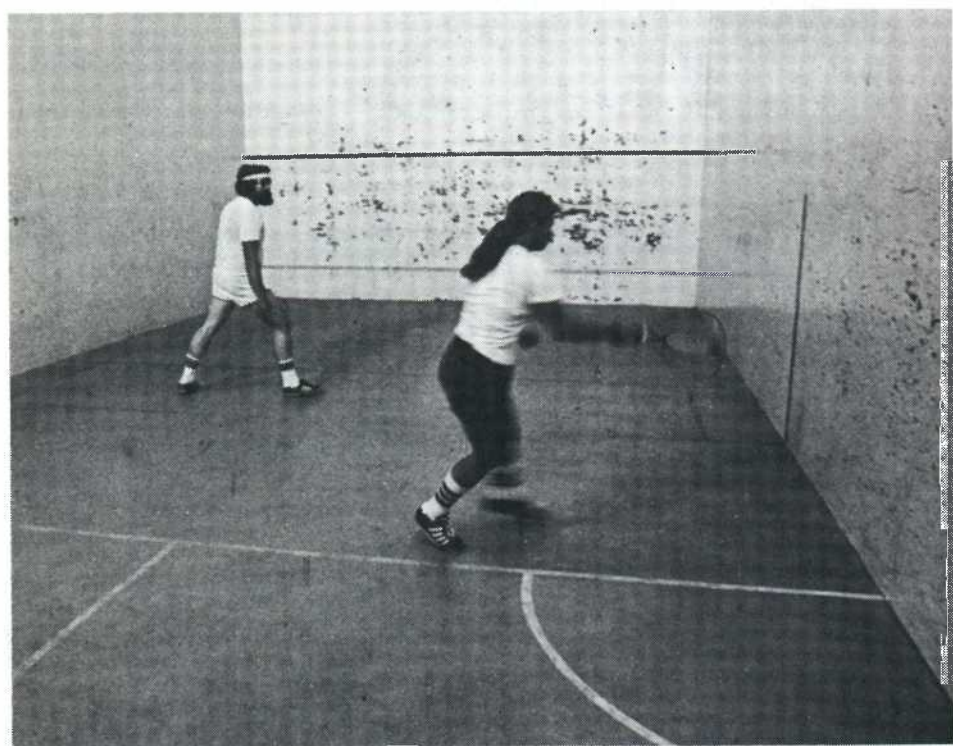
Studio Music Instructor

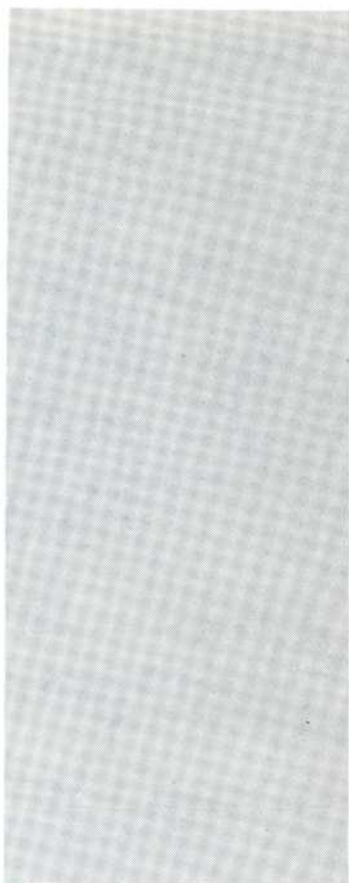
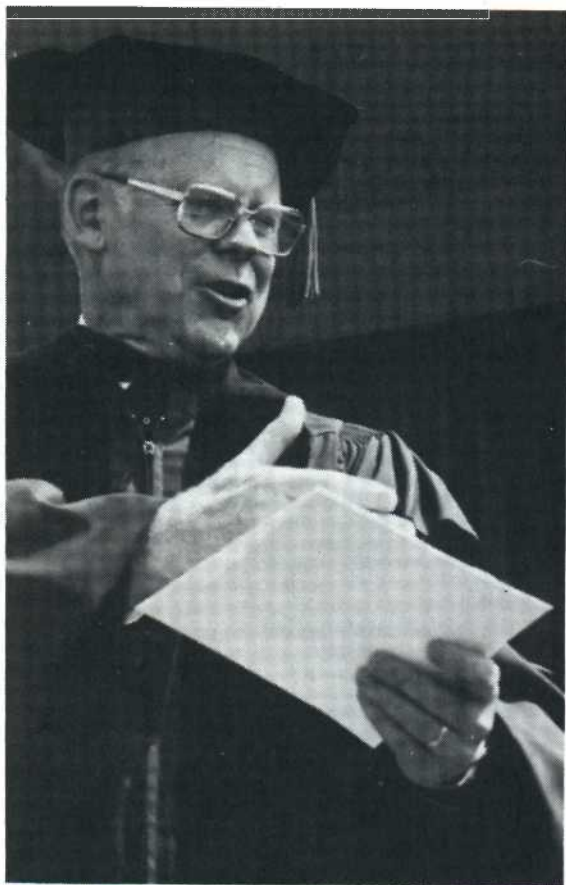
Diploma 1947, B.S. in Viola 1949, Julliard School of Music.



Both infant and child care centers are available







President Pfau confers each diploma



APPENDIX

Determination of Residence

New and returning students of The California State University and Colleges are classified for the purpose of determining the residence of each student for nonresident tuition purposes. The residence questionnaire and, if necessary, other evidence furnished by the student are used in making these determinations. A student may not register and enroll in classes until his residence questionnaire has been received by the Admissions Office.

The following statement of the rules regarding residency determination for nonresident tuition purposes is not a complete discussion of the law, but a summary of the principal rules and their exceptions. The laws governing residence determination for tuition purposes by The California State University and Colleges are found in Education Code Sections 68000–68090, 90403, 89705–89707.5, 68122, 68124 and 68121, and in Title 5 of the California Administrative Code, Article 4 (commencing with Section 41900) of Subchapter 5 of Chapter 1, Part V. A copy of the statutes and regulations is available for inspection at the campus Admissions Office.

Legal residence may be established by an adult who is physically present in the state while, at the same time, intending to make California his permanent home. Steps must be taken at least one year prior to residence determination date to evidence the intent to make California the permanent home with concurrent relinquishment of the prior legal residence. Some of the relevant indicia of an intention to establish and maintain California residence are registering to vote and voting in elections in California; satisfying resident California state income tax obligations on total income; ownership of residential property or continuous occupancy or letting of an apartment on a lease basis where one's permanent belongings are kept; maintaining active resident memberships in California professional or social organizations; maintaining California vehicle plates and operator's license; maintaining active savings and checking accounts in California banks; maintaining permanent military address and home of record in California if one is in the military service.

The student who is within the state for educational purposes only does not gain the status of resident regardless of the length of his stay in California.

In general, the unmarried minor (a person under 18 years of age) derives legal residence from his parents, or, in the case of permanent separation of the parents, from the parent with whom the minor maintains his place of abode. The residence of a minor cannot be changed by act of the minor or that of the minor's guardian, so long as the minor's parents are living.

A man or a woman may establish his or her residence; marriage is not a governing factor.

The general rule is that a student must have been a California resident for at least one year immediately preceding the residence determination date in order to qualify as a "resident student" for tuition purposes.

Residence determinations dates for academic terms commencing with the fall of 1975 and continuing thereafter are:

Quarter term campuses		Semester term campuses	
Fall	September 20	Fall	September 20
Winter	January 5	Winter*	January 5
Spring	April 1	Spring	January 25
Summer	July 1		

* Applies only to winter term in Stanislaus experimental calendar.

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There are several exceptions for nonresident tuition. Some of them provide for:

1. Persons below the age of 19 whose parents were residents of California but who left the state while the student who remained was still a minor. When the minor reaches age 18, the exception continues for one year to enable the student to qualify as a resident student.
2. Persons below the age of 19 who have been present in California for more than a year before the residence determination date and have been entirely self-supporting for that period of time.
3. Persons below the age of 19 who have lived with and have been under the continuous direct care and control of an adult, not a parent, for the two years immediately preceding the residence determination date. Such adult must have been a California resident for the most recent year.
4. Dependent children and spouses of persons in active military service stationed in California on the residence determination date. This exception applies only for the minimum time required for the student to obtain California residence and maintain that residence for a year. The exception, once attained, is not affected by transfer of the military persons directly to a post outside the 50 states and District of Columbia.
5. Military personnel in active service stationed in California on the residence determination date for purposes other than education at state-supported institutions of higher education. This exception applies only for the minimum time required for the student to obtain California residence and maintain that residence for a year.
6. A student who is an adult alien is entitled to residence classification if he has been lawfully admitted to the United States for permanent residence in accordance with all applicable provisions of the laws of the United States; provided, however, that the student has had residence in California for more than one year after such admission prior to the residence determination date. A student who is a minor alien shall be entitled to residence classification if both he and the parent from whom residence is derived have been lawfully admitted to the United States for permanent residence in accordance with all applicable laws of the United States, provided that the parent has had residence in California for more than one year after acquiring such permanent residence prior to the residence determination date of the term for which the student proposes to attend the College.
7. Certain refugees. Certain alien graduates of California public high schools.
8. Certain credentialed, full-time employees of school districts.
9. Full-time State University and Colleges employees and their children and spouses. This exception applies only for the minimum time required for the student to obtain California residence and maintain that residence for a year.
10. Certain exchange students.
11. Children of deceased public law enforcement or fire suppression employees, who were California residents, and who were killed in the course of law enforcement or fire suppression duties.
12. A person in continuous full-time attendance at an institution who had resident classification on May 1, 1973, shall not lose such classification as a result of adoption of the uniform student residency law on which this statement is based, until the attainment of the degree for which currently enrolled.

Any student, following a final decision about his residence classification by the campus, may make written appeal to: The California State University and Colleges, Office of General Counsel, 400 Golden Shore, Long Beach, CA 90802, within 120 calendar days of notification of the final decision on campus of his classification. The Office of General Counsel may make a decision on the issue, or it may send the matter back to the institution with instructions for a further review on campus. Students classified incorrectly as residents or incorrectly granted an exception from nonresident tuition are subject to reclassification as nonresidents and payment of nonresident tuition in arrears. If incorrect classification results from false or concealed facts, the student is subject to discipline pursuant to Section 41301 of Title 5 of the California Administrative Code. Resident students who become nonresidents, and nonresident students qualifying for exceptions whose basis for so qualifying changes, must immediately notify the Admission Office. Applications for a change in classification with respect to a previous term are not accepted.

The student is cautioned that this summation of rules regarding residency determination is by no means a complete explanation of their meaning. The student should also note that changes may have been made in the rate of nonresident tuition, in the statutes and in the regulations between the time this catalog is published and the relevant residence determination date.

Eligibility Index

The following chart is used in determining the eligibility of graduates of California high schools (or California legal residents) for freshman admission to a State University or College. Grade-point averages are based on work completed in the last three years of high school, exclusive of physical education and military science. Scores shown are the SAT total and the ACT composite. Students with a given GPA must present the corresponding test score. Conversely, students with a given ACT or SAT score must present the corresponding GPA in order to be eligible.

The minimum eligibility index is: SAT = 3072 and ACT = 741. The index is computed either by multiplying the grade-point average by 800 and adding it to the total SAT score, or multiplying the grade-point average by 200 and adding it to 10 times the composite ACT score.

GPA	ACT Score	SAT Score	GPA	ACT Score	SAT Score	GPA	ACT Score	SAT Score	GPA	ACT Score	SAT Score	GPA	ACT Score	SAT Score
(----) ¹			2.96	15	704	2.71	20	904	2.47	25	1096	2.22	30	1296
3.20	11	512	2.95	16	712	2.70	21	912	2.46	25	1104	2.21	30	1304
3.19	11	520	2.94	16	720	2.69	21	920	2.45	26	1112	2.20	31	1312
3.18	11	528	2.93	16	728	2.68	21	928	2.44	26	1120	2.19	31	1320
3.17	11	536	2.92	16	736	2.67	21	936	2.43	26	1128	2.18	31	1328
3.16	11	544	2.91	16	744	2.66	21	944	2.42	26	1136	2.17	31	1336
3.15	12	552	2.90	17	752	2.65	22	952	2.41	26	1144	2.16	31	1344
3.14	12	560	2.89	17	760	2.64	22	960	2.40	27	1152	2.15	32	1352
3.13	12	568	2.88	17	768	2.63	22	968	2.39	27	1160	2.14	32	1360
3.12	12	576	2.87	17	776	2.62	22	976	2.38	27	1168	2.13	32	1368
3.11	12	584	2.86	17	784	2.61	22	984	2.37	27	1176	2.12	32	1376
3.10	13	592	2.85	18	792	2.60	23	992	2.36	27	1184	2.11	32	1384
3.09	13	600	2.84	18	800	2.59	23	1000	2.35	28	1192	2.10	33	1392
3.08	13	608	2.83	18	808	2.58	23	1008	2.34	28	1200	2.09	33	1400
3.07	13	616	2.82	18	816	2.57	23	1016	2.33	28	1208	2.08	33	1408
3.06	13	624	2.81	18	824	2.56	23	1024	2.32	28	1216	2.07	33	1416
3.05	14	632	2.80	19	832	2.55	24	1032	2.31	28	1224	2.06	33	1424
3.04	14	640	2.79	19	840	2.54	24	1040	2.30	29	1232	2.05	34	1432
3.03	14	648	2.78	19	848	2.53	24	1048	2.29	29	1240	2.04	34	1440
3.02	14	656	2.77	19	856	2.52	24	1056	2.28	29	1248	2.03	34	1448
3.01	14	664	2.76	19	864	2.51	24	1064	2.27	29	1256	2.02	34	1456
3.00	15	672	2.75	20	872	2.50	25	1072	2.26	29	1264	2.01	34	1464
2.99	15	680	2.74	20	880	2.49	25	1080	2.25	30	1272	2.00	35	1472
2.98	15	688	2.73	20	888	2.48	25	1088	2.24	30	1280	(----) ²		
2.97	15	696	2.72	20	896				2.23	30	1288			

¹ Students earning grade-point averages above 3.20 are eligible for admission.

² Students earning grade-point averages below 2.0 are not eligible for admission.

Student Conduct Code

Expulsion, Suspension and Probation of Students

Violation of Sections 41301 and 41302 in Article 1, Subchapter 3, Chapter 5, Title 5 of the California Administrative Code can result in disciplinary action on campus.

41301. Expulsion, Suspension and Probation of Students. Following procedures consonant with due process established for the campus of which he is a student, any student of a campus may be expelled, placed on probation or given a lesser sanction for one or more of the following causes which must be campus related:

- (a) Cheating or plagiarism in connection with an academic program at a campus.
- (b) Forgery, alteration or misuse of campus documents, records, or identification or knowingly furnishing false information to a campus.
- (c) Misrepresentation of oneself or of an organization to be an agent of a campus.
- (d) Obstruction or disruption, on or off campus property, of the campus educational process, administrative process, or other campus function.
- (e) Physical abuse on or off campus property of the person or property of any member of the campus community or of members of his family or the threat of such physical abuse.
- (f) Theft of, or non-accidental damage to, campus property, or property in the possession of, or owned by, a member of the campus community.
- (g) Unauthorized entry into, unauthorized use of, or misuse of campus property.
- (h) On campus property, the sale or knowing possession of dangerous drugs, restricted dangerous drugs, or narcotics as those terms are used in California statutes, except when lawfully prescribed pursuant to medical or dental care, or when lawfully permitted for the purpose of research, instruction or analysis.
- (i) Knowing possession or use of explosives, dangerous chemicals or deadly weapons on campus property or at a college campus function without prior authorization of the campus president.
- (j) Engaging in lewd, indecent, or obscene behavior on campus property or at a campus function.
- (k) Abusive behavior directed toward, or hazing of, a member of the campus community.
- (l) Violation of any order of a campus president, notice of which had been given prior to such violation and during the academic term in which the violation occurs, either by publication in the campus newspaper, or by posting on an official bulletin board designated for this purpose, and which order is not inconsistent with any of the other provisions of this Section.
- (m) Soliciting or assisting another to do any act which would subject a student to expulsion, suspension or probation pursuant to this Section.

(n) For purposes of this Article, the following terms are defined:

- (1) The term "member of the campus community" is defined as meaning California State University and Colleges Trustees, academic, non-academic and administrative personnel, students, and other persons while such other persons are on campus property or at a campus function.
- (2) The term "campus property" includes:
 - (A) real or personal property in the possession of, or under the control of, the Board of Trustees of the California State University and Colleges, and
 - (B) all campus feeding, retail, or residence facilities whether operated by a campus or by a campus auxiliary organization.
- (3) The term "deadly weapons" includes any instrument or weapon of the kind commonly known as a blackjack, sling shot, billy, sandclub, sandbag, metal knuckles, any dirk, dagger, switchblade knife, pistol, revolver, or any other firearm, any knife having a blade longer than five inches, any razor with an unguarded blade, and any metal pipe or bar used or intended to be used as a club.
- (4) The term "behavior" includes conduct and expression.
- (5) The term "hazing" means any method of initiation into a student organization or any pastime or amusement engaged in with regard to such an organization which causes, or is likely to cause, bodily danger or physical or emotional harm to any member of the campus community; but the term "hazing" does not include customary athletic events or other similar contests or competitions.

(o) This Section is not adopted pursuant to Education Code Section 23604.1.

(p) The provisions of this Section as hereinabove set forth shall only apply to acts and omissions occurring subsequent to its effective date. Notwithstanding any amendment or repeal pursuant to the resolution by which any provision of this article is amended, all acts and omissions occurring prior to that effective date shall be subject to the provisions of this Article as in effect immediately prior to such effective date.

41302. Expulsion, Suspension or Probation of Students; Fees and Notification. The President of the campus may place on probation, suspend, or expel a student for one or more of the causes enumerated in Section 41301. No fees or tuition paid by or for such students for the semester, quarter or summer session in which he is suspended or expelled shall be refunded. If the student is readmitted before the close of the semester, quarter, or summer session in which he is suspended, no additional tuition or fees shall be required of the student on account of his suspension. In the event that a student who has not reached his eighteenth birthday is suspended or expelled, the President shall notify his parent or guardian of the action by registered mail to the last known address, return receipt requested.

During periods of campus emergency, as determined by the President of the individual campus, the President may, after consultation with the Chancellor, place into immediate effect any emergency regulations, procedures, and other measures deemed necessary or appropriate to meet the emergency, safeguard persons and property, and maintain educational activities.

The President may immediately impose an interim suspension in all cases in which there is reasonable cause to believe that such an immediate suspension is required in order to protect lives or property and to insure the maintenance of order. A student so placed on interim suspension shall be given prompt notice of charges and the opportunity for a hearing within 10 days of the imposition of interim suspension. During the period of interim suspension, the student shall not, without prior written permission of the President or his designated representative, enter any campus of the California State University and Colleges other than to attend the hearing. Violation of any condition of interim suspension shall be grounds for expulsion.

41303. Conduct by Applicants for Admission. Notwithstanding any provision in this Chapter 1 to the contrary, admission or readmission may be qualified or denied to any person who, while not enrolled as a student, commits acts which, were he enrolled as a student, would be the basis for disciplinary proceedings pursuant to Section 41301 or 41302. Admission or readmission may be qualified or denied to any person who, while a student, commits acts which are subject to disciplinary action pursuant to Section 41301 or Section 41302. Qualified admission or denial of admission in such cases shall be determined under procedures adopted pursuant to Section 41304.

Pursuant to Sections 41301 and 41302 in Article 1, Subchapter 3, Chapter 5, Title 5 of the California Administrative Code, President John M. Pfau hereby declares that any sit-in or other form of demonstration within a building at California State College, San Bernardino will be considered a violation of this code.

Board of Trustees Policy Relating to Conduct on State College Campuses

The following restatement of policy of the Board of Trustees of the California State Colleges is extracted from a resolution approved by the Board of November 1968.

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RESOLVED, By the Board of Trustees of California State Colleges, that this Board recognizes the need for a clear understanding of those types of behavior considered wholly unacceptable within the College Community; and be it further

RESOLVED, That this Board wishes to indicate to staff, students, and visitors alike that any of the following violations of orderly conduct are to be considered cause for prompt and diligent corrective action on the part of appropriate officials, including college disciplinary proceedings and the bringing of criminal charges where appropriate:

1. Obstruction or disruption of any unauthorized state college activity, including those of auxiliary organizations, whether on state college property or at any location then controlled by a state college.
2. Obstruction of either pedestrian or vehicular traffic on state college owned or controlled property.
3. Physical abuse or detention of any member of the college community at any location or of any other person while that person is a visitor on state college owned or controlled property.
4. Theft of or damage to state college property or property of any person while that property is on state college owned or controlled property.
5. Conduct which endangers the health or safety of any person while on state college owned or controlled property or at any college sponsored or supervised function.
6. Unauthorized entry to or use of any state college facilities, including buildings, grounds and equipment.
7. Failure to comply with directions of college police and any other law enforcement officers while they are acting in the performance of their duties.
8. Illegal possession or use of firearms, explosives, dangerous chemicals or other weapons on state college owned or controlled property.
9. Failure to comply with directions of a State College President or his authorized designee(s) while acting in the performance of his (their) duties.
10. Disorderly conduct, breach of the peace, and aiding, abetting or procuring another to breach the peace on state college owned or controlled property or at any state college sponsored or supervised functions; and be it further

RESOLVED, That this resolution is not to be construed as superseding any additional violations as specified by law, the administrative code, the resolutions of this Board, or the rules of any particular college.

Average Annual Costs and Sources of Funds

The 19 campuses of The California State University and Colleges are financed primarily through funding provided by the taxpayers of California. For the 1976-77 year, the total cost of operation is \$740 million, which provides continuing support for 239,410 full-time equivalent (FTE*) students. This results in an average cost per FTE student of \$3,091 per year. Of this amount, the average student pays \$285. Included in this average student payment is the amount paid by nonresident students. The remaining \$2,806 in costs are funded by state and federal taxes.

Averages do not fit all students alike or even any specific student. To arrive at an average figure that is meaningful, the costs outlined above exclude "user fees" for living expenses, housing and parking, as well as costs for extension and summer session work. Computations are based on full-time equivalent students, not individuals, and costs are prorated by system totals, not by campus. The average costs for a full-time equivalent student in the system are depicted in the following chart:

1976-77 PROJECTION OF TOTAL COSTS OF CAMPUS OPERATION (including building amortization)

Projected enrollment: 239,410 FTE

Source	Amount	Average cost per student (FTE)*	Percentage
State appropriation (support)	\$613,824,941	\$2,564	82.9%
State funding (capital outlay) **	30,029,210	125	4.1
Student charges	68,260,575	285***	9.2
Federal (financial aids)	27,881,227	117	3.8
Total	\$739,995,953	\$3,091	100.0%

* For budgetary purposes, full-time equivalent (FTE) translates total head count into total academic student load. The term assumes that a full-time student in The California State University and Colleges is enrolled for 15 units of academic credit. Some students enroll for more than 15 units; some students enroll for fewer than 15 units.

** The system's wide range of facilities and equipment on the 19 campuses are currently valued at approximately \$1.17 billion, excluding the cost of land. Amortized over a 40-year period, they are valued at \$125 per FTE student.

*** The average costs paid by a student include the student services fee, health facilities fee, college union fee, student body fee and the nonresident tuition. This amount is derived by taking the total of all student fees and dividing by the total full-time equivalent student enrollment. Individual students may pay more or less than \$285 depending on whether they are part-time, full-time, resident or nonresident students.

The Student Services Fee

A student services fee was established by the Board of Trustees of the California State University and Colleges in January 1975. Previously, this fee was known as the materials and service fee.

The student services fee provides financing for the following student services programs not covered by state funding:

1. Social and cultural development activities: provides for the coordination of various student activities, student organizations, student government and cultural programs.
2. Counseling: includes the cost of counselors' salaries and clerical support plus operating expenses and equipment.
3. Testing: covers the cost of test officers, psychometrists, clerical support, operating expenses and equipment.
4. Placement: provides career information to students and faculty for academic program planning and employment information to graduates and students.
5. Financial aids administration: includes the cost of the counseling and business services provided in connection with the financial aid programs.
6. Health services: provides health services to students and covers the cost of salaries of medical officers and nurses plus related clerical and technical personnel as well as operating expenses and equipment.
7. Housing: includes the cost of personnel providing housing information and monitoring housing services provided to students.
8. Student services administration: covers 50% of the cost of the Dean of Students Office which has responsibility for the overall administration of student services.

Privacy Rights of Students in Education Records

The federal Family Education Rights and Privacy Act of 1974 (20 U.S.C. 1232g) and regulations adopted thereunder (45 C.F.R. 99) set out requirements designed to protect the privacy of parents and students concerning education records maintained by the institution. Specifically, the statute and regulations govern (1) access to records maintained by the campus, and (2) the release of such records. In brief, the law provides that the campus must provide students access to official records directly related to the student and an opportunity for a hearing to challenge such records on the grounds that they are inaccurate, misleading or otherwise inappropriate; the right to a hearing under the law does not include any right to challenge the appropriateness of a grade as determined by the instructor. The law generally requires that written consent of the student be received before releasing personally identifiable data about the student from records to other than a specified list of exceptions. The institution has adopted a set of policies and procedures concerning implementation of the Act and the regulations on the campus. Copies of these policies and procedures may be obtained at the Dean of Students Office. An office and review board have been established by the Department of Health, Education and Welfare to investigate and adjudicate violations and complaints under the Act. The office designated for this purpose may be contacted at the following address: The Family Educational Rights and Privacy Act Office (FERPA), Department of Health, Education and Welfare, 330 Independence Avenue, SW, Washington, D.C. 20201.

The campus is authorized under the Act to release public directory information concerning students. Directory information includes the student's name, address, telephone listing, date and place of birth, major field of study, participation in officially recognized activities and sports, weight and height of members of athletic teams, dates of attendance, degrees and awards received, the most recent previous educational agency or institution attended by the student, high school from which the student graduated and name of parents. The above designated information is subject to release by the campus at any time unless the campus has received prior written objection from the student specifying information which the student requests not be released. Written objections should be sent to the Dean of Students Office.

Notice

The Board of Trustees of The California State University and Colleges, in Section 43800 of Title 5 of the California Administrative Code, has reserved the right to add, amend, or repeal any of its regulations, rules, resolutions, standing orders and rules of procedure, in whole or in part, at such time as it may choose. None shall be construed, operate as, or have the effect of an abridgement or limitation of any rights, powers or privileges of the trustees. The chancellor reserves the right to add, amend or repeal any of his Executive Orders, at such time as he may choose, and the president of California State College, San Bernardino reserves the right to add, amend or repeal provisions of this catalog and rules of the College, including handbooks, at such time as he may choose. No executive order shall be construed, operate as, or have the effect of an abridgement or limitation of any rights, powers or privileges of the chancellor nor shall any catalog provision or rule of the College be construed, operate as, or have the effect of an abridgement or limitation of any rights, powers or privileges of the president.

Every effort has been made to assure the accuracy of the information in this catalog. Students are advised, however, that such information is subject to change without notice. Therefore, they should consult the appropriate instructional departments, schools or administrative offices for current information.

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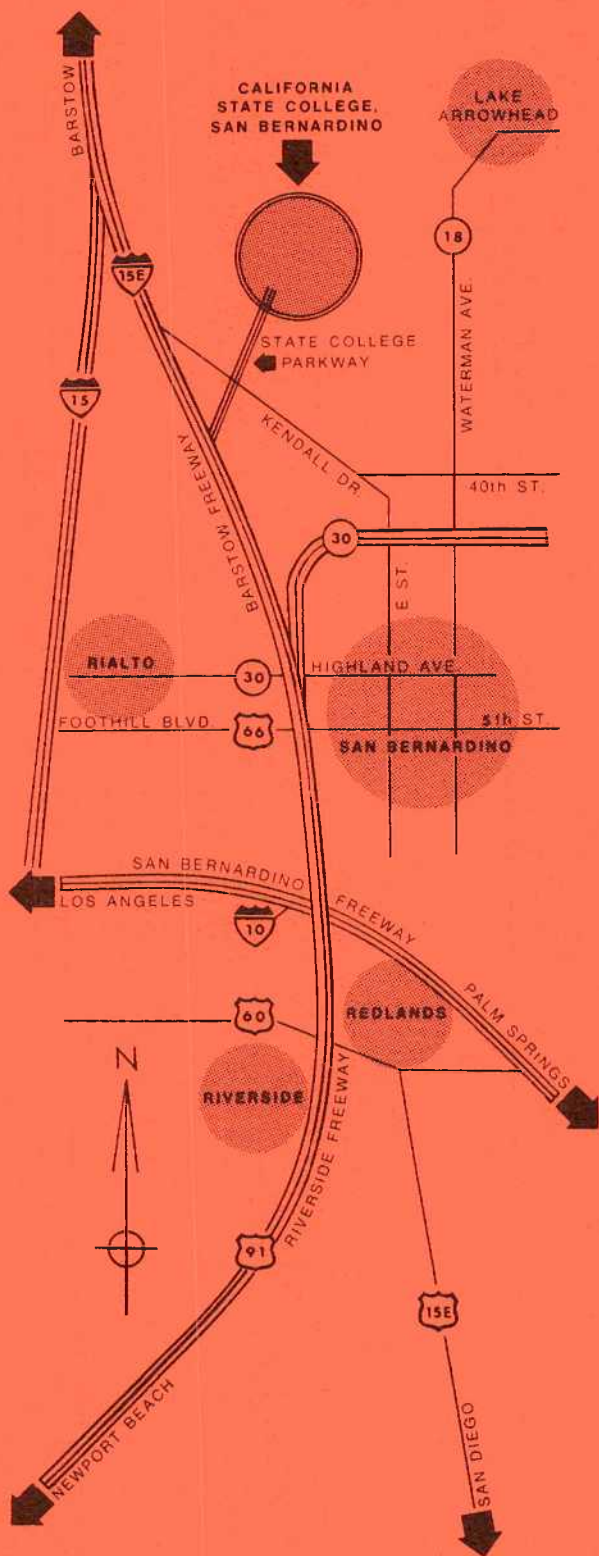
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